FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper, and for Transmission Abroad.]

o. 2567.—Vol. LIV.

LONDON, SATURDAY, NOVEMBER 1, 1884.

SUPPLEMENT. | SPRICE SIXPENCE.

B. JAMES H. CROFTS, STOCK AND SHARE DEALER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. ESTABLISHED 1842.

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TELEPHONE NUMBER 1003 in the following (or part):—
200 Guimea Coast Gold,
offer wanted.
50 Gunnislake (Olitters),
100 Hoover Hill, 4s. 6d.
100 Hoower Miles Trust,
22s. 6d.
175 Indian Consoll., 2s.
180 Kapanga, 2s. 9d.
180 Killifreth, 13s. 6d.
180 Konadon, 15s. 6d.
180 Kohmab's Guilly.
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180 Kohmab's Gu

colal DEALINGS in the following (or part):—

six Minor, 3a. 6d.
tanktoo, f.pd., 5s.
simada, 3s. 6d.
edford United, 27s.
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estaberg, 22s. 6d.
ankim Hamoo, 2s.
eliao Bis, 10s. 6d.
100 Hoover Hill, 4s. 6d.
50 Home Mines Trust,
22s. 6d.
75 Indian Consoli., 2s. 9
100 Javail, 4s.
100 Hoover Hill, 4s. 6d.
75 Indian Consoli., 2s. 9
100 Javail, 4s.
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ratherg, 22s. 6d,
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aliao Bis, 19s. 6d,
bile Gold, 2s, 9d,
blombian Hyd., 11s 3
onsolidated, 2s,
laifornia, 12s,
blorado, 22 1s, 3d,
beats Copper, 3s, hondales, 3s. bontales, 3s. lor. South Australian Copper, 2s 3d. da Moyar, 6s. 6d. n Con., £2 2s. 6 n Friend., 3s. n United, 2s. 6d.

oleoath, £86 %. Join Pedro, 6s. Jrakewalls, 2s. 6d. Jrakewalls, 2s. 6d. Jrakewalls, 5s. 6d. Jrakewalls, 5s. 6d. Jrakewalls, 5s. 9d. East Lovell.
East Wh. Rose, Sr. 6d.
Ecton, £2 2s. 6d.
El Callao, £73.
Frontino, 12s.
Goginan, 2s.

oginan, 28.
old Coast, 39 3d.
lenrock, 3s. 3d.
rest Holway, 15s.
rest Laxey, £9 7s. 6

* SHARES SOLD FOR FORWARD DELIVERY (ONE, TWO, OR THREE STREET OF TWENTY PER CENT. BUSINESS at CLOSE PRICES in all Market TIN, COPPER, LEAD, SILVER, and DIAMOND SHARES JAMES H. CROPTS, 1, FINCH LANE, LONDON. AILWAYS - SPECIAL BUSINESS .- Fortnightly Accounts

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Railways, Mines, and Richards, 149.

Railways, Mines, 249.

Rodonthian Hyd., 11s.

Rodonthy Greular toaching upon Mines in the United States of Colombia, indiang Colombia, Hydraulic, Organos, Orita, 70.

Railways, Railway

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ESTABLISHED 1842.

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TREVAUNANCE also POLBERNO SHARES SHOULD BE BOUGHT AT ONCE.

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50 Killifreth, 13s.

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50 Killifreth, 2s.

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10 Mounts Bay, 3s.

51 Copiapo, 22f.

10 Colankim Bamon, 2s.

10 Kitty St. Agnes, 1s. 6 10 Copiapo, 22f.

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20 Pheenix United, 37s 6 10 Colombian Hyd., 1ls.

20 Parys Copper, 1s. 6d.

50 Parys Copper, 1s. 6d.

50 Parys Copper, 1s. 6d.

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10 Old Goard Gold, 12s. 3d.

25 New Kitty, 25s.

100 Colankim Bamon, 2s.

100 Colankim Bamon, 2s.

100 Colankim Bamon, 2s.

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10 Faulucillo, £3 lis. 3d.

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carry metals and mining securities very much nigher. This being conceded, there is not the slightest doubt that the trust will occupy an enviable position, and be able to place itself in the foremostrank of such institutions.

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MINING ASSOCIATION OF CORNWALL AND DEVON-MINING INSTITUTE OF CORNWALL.

The amalgamation of the Mining Institute of Cornwall with this Association is a matter upon which the members of both societies may well be congratulated, since it may be regarded as the first step towards the establishment in the western counties of a technical towards the establishment in the western counties of a technical mining school, whose alumni will be in every respect equal to the graduates of Freiberg, Clausthal, or Columbia College (New York) Schools of Mines, or of the Mining and Metallurgical Department of Melbourne University. It is understood that the success of the movement for amalgamation is, to a large extent, due to the exertions of Mr. R. J. Frecheville, H.M. Inspector for the district, and the hearty support given is, perhaps, the best evidence that could be that the mining engineers and miners of Cornwall and Devon are unanimous in their desire to do all that is practicable to keep Cornish miners in advance of those offered all other districts. In moving, at the Mining Institute of Cornwall meeting, the resolution appropring the miners in advance of those offered all other districts. In moving, at the Mining Institute of Cornwall meeting, the resolution approving the amalgamation, Mr. HUSBAND stated that the secretary had sent out letters asking for the opinion of the members of the Institute on the subject. and there had been received 82 replies agreeing to the amalgamation and only one against it. That seemed to him to be exceedingly satisfactory, and he was quite sure the result would prove most beneficial. The amalgamation would save expense, and bring their young students into contact with the members of the Miners' Association. He had no doubt in future Cornwall would said and Association. He had no doubt in future Cornwall would send out men, uniting theory with practice, that would be a credit to the The motion was unanimously agreed to, and the general of the meeting was, that in the result all would be greatly

Previous to commencing the ordinary business of the meeting the Previous to commencing the ordinary business of the meeting President, Mr. R. J. FRECHEVILLE, stated that it had been bro to the notice of the council of the Institute that certain very cous restrictions were in contemplation of being placed on the d mite business. The council had had the restrictions to be place the Government under their consideration, and the placed by the Government under their consideration, and they had passed the following resolutions:—"Resolved, that it having been brought to the knowledge of this Institute or council that it is intended by the Home Office to enforce by Order in Council or by conditions in licenses the employment of day and night watchmen on all magazines and stores of explosives, this Institute desires to record its strong onition of the uselessment and unwisdom of this proposal and strong opinion of the uselessness and unwisdom of this proposal, and instructs the secretary to prepare a memorial on the subject, to be signed by the President on behalf of the Institute, and presented to signed by the President on benair of the Institute, and presented to the Members of Parliament for the county soliciting their best ser-vices to prevent such a restriction being imposed." In the discussion upon the resolution it was remarked that the outrages which had led to this panic legislation had been sifted out, but they had not been traced in any one instance to the explosive of a British manufactory. In eight or nine cases they had been traced to explosives of American manufacture, and consequently the proposal to enforce the employment of day and night watchmen at British manufactories was absurd. If manufacturers had to pay a quarter of a million of money extra each year it would have to be raised somewhere, and the consumers would have to pay for it. He recommended to them very strongly the proposal that had been made by the council of the Institute. The resolution was carried unanimously.

In a paper "On the Duty and Maintenance of Husband's Oscillating Cylinder Stamps," Mr. W. DERRY, manager of Owen Vean and Tregortha Downs Mines, stated that in the preparation of his paper his object was to record the extraordinary performance of these stamps in the most concise and simple manner, and by dealing with traced in any one instance to the explosive of a British manufactory

stamps in the most concise and simple manner, and by dealing with the salient and important points afford the members of the Institute material from which to form their own conclusions. He would con-fine himself to a narration of facts that were indispensable: Four material from which to form their own conclusions. He would confine himself to a narration of facts that were indispensable: Four of the stamps were at work at the Owen Vean and Tregurtha Downs Mines. He referred to a paper read by Mr. Loam at the last meeting of the Royal Cornwall Polytechnic Society on these stamps, and stated that the facts given by Mr. Loam were justified by subsequent experience at the above mentioned mines. The first two heads were started on June 7, and the remaining two on June 21 last. From causes wholly unconnected with themselves the stamps had not been constantly at work since their erection. He was safe, however, in saying that three months was considerably within the actual time of constant running. He would take the performance from Sept. 1 to Sept. 28 as fairly performing their duty, including stoppages, to be 2000 tons 15 cwts., at the rate of 86 tons per day of 24 hours. The lodestuff stamped was principally chloride, of probably about the average hardness of rock stamped in Cornwall. The maximum speed was 125, and the average barely (as far as he could judge) 122 blows per minute. The copper grates were very fine, 36 hole, three grates of equal size to each copper, and each having a perforated area of 214 in square. The stone was sent into the passes fully 30 per cent. larger in size than the standard adopted in the county for the supply of stamps of the old sort. The quantity of grate water was very small compared with what he The quantity of grate water was very small compared with what he was informed had been supplied to this kind of stamps elsewhere, and herein lay probably to a great extent the secret of the extra work they had performed there. Soon after starting the tin dresser work they had performed there. Soon after starting the tin dresser expressed the opinion that the large quantity of water impeded the exit of the stamped stuff through the grates, and by lessening the water very considerably they wonderfully increased the duty. He considered that a most important point, and persons adopting those stamps would do well to bear that in mind. The quantity of water used must doubtless vary in different mines according to the character of the triff and the grates used. The materials work out in the reof the stuff and the grates used. The materials worn out in the reduction of the 2000 tons 15 cwts. of tinstone and their cost amounted to a total cost of 181. 5s. 6d., or barely 21d. per ton of stuff stamped. He might explain that 20 cwts. to the ton was the standard of results obtained in the trial reported in Mr. Loam's paper. On Oct. 16 he instituted another severe 24 hours' trial, with a result of 86 tons 16 cwts., or 7 tons less than in the former trial. This falling off 16 cwts., or 7 tons less than in the former trial. This falling off he accounted for by the grates being nearly all new, and also from the heads and dies being worn much below an average condition. This he regarded as a trial of the stamps under disadvantageous circumstances. The question of coal consumption was not accurately determined, the boilers not being in proper order. He thought that 3½ tons of coal per day would be found about the quantity consumed. Next came the question of durability, and the maintenance of the various parts other than those before referred to. An outlay of 39%. 3s. 9d. would practically provide a new one head battery, or in other words, when the four heads were completely worn out they might be replaced by an expenditure of 156%. 5s. The period when this would become necessary was evidently remote, as by merely re-planing the guides, re-boring was evidently remote, and supplying new piston rings at comparatively little cost, the whole would be virtually renewed. On the Sept. 29 stamps were taken abroad and carefully examined, and the only wear taken abroad and carefully examined, and the only wear taken abroad and carefully examined, and the only wear taken abroad was the more removal of the barr or traces. stamps were taken abroad and carefully examined, and the only wear that could be detected was the mere removal of the burr or traces of the fitting shop. An iron wire 9½ in. long would hang suspended across the middle of the pneumatic cylinders, that being their exact diameter at the outset. The fineness of the coffer grates used indicated the nature of their tin, which was exceptionally fine in the grain. They stamped direct into the round buddles, and the separation was excellent, the tails of the first or stamps buddles, unworthy of further treatment, were sent direct to the barrows. These were authentic facts of a conclusive nature requiring no further comment from him. He might say, however, in conclusion, that it would afford him the greatest possible pleasure to receive the visits of mem-bers or others desirous of seeing the stamps at work, and to answer uiries on the subject.

In the discussion which followed the reading of the paper, the PRESIDENT remarked that there could be no doubt that the reducthe greatest importance to the mining industry of Cornwall. Of late years there had been a great many improvements in many other departments of mining, but there had been very little improvement considered. Mr. Husband's stamps worked as smoothly as possible, and he really thought in a county like Cornwall that they would be the stamps of the future.

MINING PROGRESS IN QUEENSLAND.

Subjoined is an abstract of a letter from the Sellheim Silver Mines published by the Charters Towers and North Queensland Mining Journal. The private company was taken up, says the writer, by Messrs. Hornung and McDonald on July 2, 1888, area 80 acres. The lode runs nearly east and west, and underlies to the north about 1 ft. horizontal to 10 ft. vertical. The first shaft, sunk 90 ft. on the underlie, produced about 40 tons of galena. A level to the west was put in 20 ft., at 70 ft. from the surface, and another opposite this was put in 24 ft. east; 30 tons of galena being obtained from the two. The assays are said to run from 70 to 90 ozs. of silver and 75 to 80 per cent. of lead to the ton. Two more shafts have been started; one is The assays are said to run from 70 to 90 ozs. of silver and 75 to 80 per cent. of lead to the ton. Two more shafts have been started; one is down 18 ft. The lode is 3 ft. 6 in, wide. The other shaft is just commenced. Luckily there is little or no water to contend with, in fact an easier place to work could hardly be found. In some of the assays from this claim 1 oz. 6 dwts. of gold was obtained, as well as the silver and lead. The name of this claim is the Pyramid, and employs eight men. The Venture is a 20 acre lease adjoining the former property. It is owned by five men, two of whom work it. Two shafts have been sunk on their lode.

Although it is thought by some that this is a continuation of the Pyramid lode, there seems to be little doubt that it is merely a tri-

Pyramid lode, there seems to be little doubt that it is merely a tri-butary, as the course, underlie, and ore all differ from it. A sample of the ore stacked in the paddock was sent to Mr. Staiger for assay, who found it not to be silver at all. The result of the assay showed who found it not to be silver at all. The result of the assay showed 75 per cent. mispickel, 15 per cent. lead, 10 per cent. quartz or sand, and 5 ozs. 12 dwts. of gold per ton. On the Bonnie Dundee lease, adjoining the Pyramid, on its southern boundary, two shafts have been sunk—one 36 ft. deep, lode 5 ft. wide, and the other 80 ft. deep, still sinking no levels; 10 tons of ore are awaiting shipment to England. The assays range from 73 to 130 ozs. of silver to the ton. At the bottom of the 80 ft. shaft about 2 ft. 6 in. good mundic stone has come in, which is to be tried for gold. Messrs Stable and Batt has come in, which is to be tried for gold. Messrs Stable and Batt have started a 20 acres lease, and another lease has been taken up by Mr. Thomas Johnson, of the John Bull, Ravenswood; area, 40 acres. by Mr. House Sollison, the country, and, although the ore does not show much galena, it must assay well, as it was tried before it was applied for.

The writer was on the main road from Bowen to the wes The writer was on the main road from Bowen to the west, 120 miles from Bowen, 70 miles from Ravenswood, and 8 miles from Mount Wyatt. All the ore there had been carried at 4l. 10s. per ton, and 1l. 10s. freight to London. It is very likely that the Bowen carriers will not be equal to the demand so soon as stamping commences. Very little prospecting has been done, and there is plenty of room for new arrivals to try their luck. The Argentine claim, owned by Mr. G. P. Morey, has a shaft down 50 ft.; formation quartz, galena, and black jet. galena, and black jet.

l black jet.

Ravenswood Silver Mining Company have shipped Silver Mining Company have shipped or of the Ravenswood Silver Mining Company have shipped to the Ravenswood Silver Mining Company I.—The during the half-year ended June 28, 553 tons of ore, of the value of 93211. There were 71 tons at the port, and 48 tons on the sampling-floors, valued at 22871, making a total of 11,6081. the sampling-floors, valued at 2287L, making a total of 1,008L. Since the opening of the mire 1369 tons of ore, equal to 762 tons of pig-lead, containing 173,270 ozs., or over 5½ tons of fine silver, have been shipped to England. At Hillsborough a splendid lode of silver has been found 10 ft. thick, which is expected to eclipse all others on that field. The owners have 25 tons in the paddock at present. At the Esperanza lease 1 ton 8 owts. of buddlings yielded 5 ozs. 14 dwts. of gold. Barber and party, at Washington, crushed 60 tons for a yield of 240 ozs. 14 dwts. of gold. This crushing took 14 weeks to get, and will pay the shareholders well. The claim has a reef about 2 ft, wide.

RAILWAYS IN MINES.—The economical conveyance of minerals underground, especially at the present time, is of primary importance. Of late years improvements have taken place, but it is considered that even the existing system is capable of being improved upon. One of the principal objects to be obtained is the minimising of friction, which resists the motion of all carriages running over rails on wheels, which includes the contact of the periphery of the wheel with the rail, attraction of the axle, and the oscillation of the load. From experiments made by an eminent mining enginer, it wheel with the rail, attraction of the axie, and the oscillation of the load. From experiments made by an eminent mining engineer, it appears that on an ordinary railway connected with a mine on the surface the resistance in some instances did not exceed the 1-240th part of the load, whilst on the best constructed railways it is not more than 1.500th part of the load. part of the load, whilst on the best constructed rallways it is not more than 1-500th part of the load. On the other hand, on underground railways, with the road in good condition, the friction has been found to be something like 1-110th part of the weight, and with rails worn at the top, and the road in ordinary condition, the friction was found to be about 1-82nd part of the weight. For a great many years Curr's tram-plates, which superseded the wooden ways and broad wheels, were in the ascendant. They were introduced by Mr. Curr at the Duke of Norfolk's coal mines, near Sheffield, along with the sharp-edged wheels, and these diminished the resistance of friction. These, however, have had to give way to round top rails with the broad flanged wheels, being lighter and stronger, and are now in use at most first-class mines. It has been found that the friction of the flanges is very much less than that of the sharp-edged wheels with Curr's plates, whilst the rails can be made much stronger and more durable and with the same weight of material. At many mines two iron rails are laid down, whilst it is admitted that those made of steel are by far the cheapest in the long run; the same is mines two iron rails are laid down, whilst it is admitted that those made of steel are by far the cheapest in the long run; the same is also admitted to be the case with respect to wheels. In connection with the rails, self-acting and inclined planes can be most advantageously adopted where the minerals have to pass a considerable distance down gradients having a fall of from 1 in 30 to 1 in 40. On most parts of the Continent inclined planes are made to serve two or three of the faces, especially where the formations are steeply inclined. These are laid with four rails, on the outer part of which there is a tram with a horizontal platform on which the tub goes along. On the inner pair of rails there is another long, heavy, and narrow tram, which performs the duty and acts as a counterbalance, and is so constructed that it can pass underneath the first one when they meet. The trams are attached to ropes coiled upon a drum at the top of the incline, and when the weight of the fall tubs in dep of the incline, and when the weight of the full tubs in de the top of the incline, and when the weight of the full tube in descending raises the counterbalance, the latter pulls up the empty tubs: Underground railways, indeed, are more costly than many persons are aware of, and how to increase their durability is a most interesting problem for the mining engineer to solve, and we feel assured can be done.

METALISING WOOD .- According to Van Nostrand's Magazine Rubennick's process for metalising wood consists in steeping the wood in a caustic alkali for two or three days, according to its degree of permeability, at a temperature between 164° and 197° Fahr. The wood is then placed in a second bath of hydrosulphate of calcium, to wood is then placed in a second bath of hydrosulphate of calcium, to which is added, after 24 or 38 hours, a concentrated solution of sulwhich is added, after 24 or 38 hours, a concentrated solution of sulphur. After 48 hours the wood is immersed in a third bath of acetate of lead, at a temperature between 95° and 122° Fahr., where it remains from 30 to 50 hours. After a complete drying the wood thus treated is susceptible of a very fine polish, especially if its surface is rubbed with a piece of lead, tin, or zinc, and finished with a burnisher of glass or porcelain. It then looks like a metallic mirror, and is sheltered from the deteriorating effects of moisture

PUBE MAGNESIUM.—Grätzel's patent for the separation of alkaline metals by electrolysis has been very successful in the reduction of magnesium. At a late sitting of the Electrotechnische Verein, in Berlin, a ball of magnesium of about 15 centimetres diameter excited general attention. It was of superb brilliancy, similar to that of silver, and had lost nothing of its lustre since its separation by electrolysis. This preservation is a sign of its chemical purity, and forms late years there had been a great many improvements in many other departments of mining, but there had been very little improvement in regard to stamping machinery. The Americans were far ahead of them in this respect, but he thought Mr. Husband had advanced beyond the American invention with such an enormous bound that the whole question of stamping in Cornwall would have to be re-

MINING PROGRESS IN NEW ZEALAND.

MINING PROGRESS IN NEW ZEALAND.

The mining prospects of New Zealand are beginning to weat brighter aspect. A shipment of 13 tons of native copper, a law nificent specimen of the product of the Champion Company's kind cannot fail to create a very favourable impression, and the dittoin now feel justified in taking steps to proceed with the permanent working of their mines. A smelting-furnace has been ordered, at tenders invited for a tramway from the mine to the furnace sizes the banks of the Roding river. A 36-in. water-jacket copper such with all necessary plant, including ore crusher, and blower for the furnace, is to be erected shortly. These smelters are being large introduced in the colonies. The principle on which they are structed consists in providing for keeping the sides of the furnace structed consists in providing for keeping the sides of the furnace. the banks of the Roding river. A 36-in. water-jacket copper smels, with all necessary plant, including ore crusher, and blower for a furnace, is to be erected shortly. These smelters are being introduced in the colonies. The principle on which they are a structed consists in providing for keeping the sides of the furnace which are composed of iron, cooled by means of a current of color water circulating between the furnace sides and an outer covering the result claimed being that the whole of the heat is then available for smelting, whilst none is wasted in heating brickwork. the result claimed being that the whole of the heat is then available for smelting, whilst none is wasted in heating brickwork. The creators believe that the poor ore from this mine, containing be 5 per cent. of copper, could be made to pay by means of the water jacket smelter, and consequently that the profit on treating the richer ores would be very great. At this mine strong native copper has been found, and the directors are confident that by the time the smelting works are completed, and the tramway finished, they will be able to keep the smelter in full work. At the Nelson Chamber of the Champion Copper Mine to erect smelting works as specify as possible, and also to construct some 3 miles of tramway to the smelting furnace site. He said the Government had surveyed are as possible, and also to construct some 5 miles of chanway to the smelting furnace site. He said the Government had surveyed are leading up Aniseed valley, past the furnace site, and had constructed a section of 3 miles of the road, situate some 5 miles below that site. a section of 3 miles of the road, statute some 5 miles and that the It was most desirable that the Government should complete the road, in order that the company could get their machinery in position. In an account of a visit to these mines, contributed to the Lyttleton Times, it is stated that the two mines are in the Anises Lyttieton Times, it is stated that the two laines are in the annes valley, in close proximity to one another, about 8 miles from Nelson in a thickly wooded country, well watered, and with every facility for mining operations. About 2 miles before reaching the mine they came upon a fine flat piece of land (the only level piece in the vicinity), covering an area of 20 acres, the property of the Champion Company, who purchased it for the purpose of subsequently erecting smelting works thereupon.

works thereupon.

This company has a long lease of 1150 acres of clearly defined mineral land. Arriving at the scene of operations it was found that quite an extensive settlement was already formed, and the white tents and wooden buildings, with all the signs of life and activity, convinced one that some extensive work was being carried on. A clear deep stream winds through the midst of the scene, and all around one hears the sound of mining labour in all its various forms. The work accomplished was very surprising. In the hill to the right from the approach are two drives at different elevations, the lower being the main and most extensive of the two. They are connected from the approach are two curves at current elevations, the lower being the main and most extensive of the two. They are connected by a shaft at a distance of some hundred odd feet from the mouth, and a shaft is also being sunk to a lower level from the main drive. Cross-cuts are made both to the right and left, thus enabling them. nager to thoroughly determine the nature and direction of the lodes.

The copper, in several forms, is very abundant, grey ore, black oxide, and native copper being the most common in this working so far and native copper being the most common in this working so far, and copper pyrites or yellow sulphides being apparently, so far, nearly absent. The native copper in the lode runs in a diagonal direction, apparently to a very considerable depth, and we could see it plainly visible as far as the blasting operations had been carried One difficulty experienced in working upon this part of the lode is that it lies in an unsettled country, or, in other words, that this part of the hills has been disturbed by volcanic agency, so that the lode is often interrupted and lost for a time, and has to be again picked up. Frequently large masses of native copper are taken out of very considerable weight, one piece alone having been found weighing over i ton; and we saw numbers of these huge blocks of solid conservations. over \(\frac{1}{2} \) ton; and we saw numbers of these huge blocks of solid cope at the mouth of the drive, some of which the writer was unable to

lift from the ground. Crossing the stream the party visited the drive made into the opposite hill: The work here has gone far enough to prove that the country is of an undisturbed formation, and that the lode can be worked continuously without fear of interruption. This is the same hill that the United workings are in on the other side, and conse-quently by continuing this drive it is proposed to connect the two mines and form a tunnel through the hill, thus forming an oulei through the newly-acquired property for the ore, and this will eretually become the shortest and most direct route for the road of communication, besides thoroughly proving the extent and richness of the lode in so doing. The most extensive work yet accomplished by the company has been the sinking of a large shaft, 10 ft. by 4 ft, close to the stream to a depth of 150 ft. It is intended to cut drives in each direction, and then work the lode at a low level. There are in each direction, and then work the lode at a low level. There are some 100 to 180 tons of ore ready for transportation. When the road is finished, and an easy outlet thereby obtained, it is estimated that these mines will produce at least 500 tons of copper ore per month which taken at the average of the 20 tons already shipped will amount to 100,000? worth of copper per annum. Leaving the Champion Mine the party visited the United Mine, and there, as at the Champion Mine, they found indications of extensive work and progress. The mine manager conducted them into one of the drives—there were three at different levels—and there, as at the other side of the hill, the country was undisturbed, and what was, and is, a very important item of consideration, they were working on a bed of rich copper pyrites, so rich that they could plainly detect it before, above, and around them. Great importance is attached to this fact, not merely because this yellow sulphide is the most parable and workable form of ore, but because it is known to be an variable indication of a permanent mine when a bed of yellow sulphides is come upon.

phides is come upon.

From what he saw he firmly believes that there is an immense for tune to be made out of this mine alone, and it was certainly a wish tune to be made out of this mine alone, and it was certainly a wish step for the Champion Company to have taken to secure it at the price they did. He left with the conviction that a grand prospect exists for the future of this company.

FIFESHIRE COAL FIELDS.—As the result of extensive slaking operations undertaken by the Cowdenbeath Coal Company on their recently-purchased Foulford estate the lower or Dumfermline coal. seam has been struck. At a depth of 150 fms, the seam was struck, and the coal found to be 4½ ft, thick. Eight workable seams were passed through in the shaft—total thickness of 50 ft. It is estimated the struck of the struck mated that at least 300 acres of the respective seams will be found on the estate. Heavy pumping machinery has been erected on the bank, and it is expected that when the seams are developed the output from the one pit will reach 500 tons was dear the seams are developed. put from the one pit will reach 500 tons per day. This company has also obtained a lease of the minerals on the Lumphinans estate, and are largely augmenting the machinery there. In one of the pits at Cowdenbeath the Lochgelly splint has been struck with a cross-out mine, and has been found to be 12 ft. 9 in. in thickness. It is computed that the company will have at least an area of 1800 acres of coal before them, which will yield 100,000,000 tons. The present outputs of the colliery is 1900 tone daily but lyine the per present output of the colliery is 1200 tons daily, but [when the new shafts have been got in thorough working order it is expected that this will be doubled. Two coal washers have been introduced at the colliery—a mechanical contrivance by which the "beans" are separated from "nuts," and subjected to a thorough process of washing. The colliery promises to be the largest in Fifeshire, if not in Scotland.

Banking Business in New South Wales.—At the end of June last the total paid up capital of the various New South Wales banks was 8,980,000L, and their reserves and undivided profits 4,771,005L—equal to 13,731,005L of banking capital. This represents a diminution of 1,500,000L in the amount of the paid up capital—the amount of that of the Oriental Bank—but the reserves show -the amount of that of the Oriental Bank-but the reser an increase of about 50,000. The total amount paid for the lat dividends had been 635,2501, ranging from 5 per cent. in the case of the London Chartered, to 25 per cent. in the case of the Commercial Bank of Sudanes. mercial Bank of Sydney.

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Registration of New Companies.

following joint-stock companies have been duly registered:following Joint-Block Companies have been duly registered:—

JOSPH TURNER AND COMPANY (Limited).—Capital 30,000l., in

sof 10l. To acquire and carry on a chemical business estabed at Queensferry, County of Flint. The subscribers (who take
eduare each) are—G. Raynor, Leeds; A. Hess, Leeds; F. Wardle,
eduare each) are—G. Raynor, Leeds; W. C. Deeley, Chester; H.

James Leeds; B. Hess, Leeds; W. C. Deeley, Chester; H.

James And Company (Limited).—Capital 20,000l., in shares
in To acquire, take over, and carry on an established business in

Jabard And Company (Limited).—Capital 20,0001., in shares Jabard And Company (Limited).—Capital 20,0001., in shares it To acquire, take over, and carry on an established business in with of boot and shoe makers. The subscribers (who take five reseach) are—J. Garrard, Ipswich; E. Whitehead, Ipswich; W. mard, Ipswich; F. K. Frost, Ipswich; F. Juggins, Ipswich; W. andler, Leiston; A. Raphael, Ipswich; J. Hillary, Ipswich; Tis Cornish Telebrapher Company (Limited).—Capital 30001., that of 11. 10s. To print and publish said paper, and to carry agreeral business of printers, lithographers, &c. The subscribers (W. Bickford-Smith, Trevarne, 1400; G. Bazely, Penzance, 50; C. Symons, Penzance, 25; R. A. Courtney, Trevarne, 25; W. H. Mar, Penzance, 10; A. Chenhalls, St. Ives, 5; W. Rabling, Cam-

jan, Penzance, 10; A. Chenhalls, St. Ives, 5; W. Rabling, Camns, 20.

HE HOLYWELL LIME AND CEMENT COMPANY (Limited).—
rial 15,000l., in shares of 5l. To adopt and carry into effect a
rian agreement made between E. Fidler of the one part, and E.
Leres of the other, for the acquisition of a property situated in
parish of Holywell, and for the purpose of fully developing the
me, and carrying on all operations connected with mining, quarry
[sime, and cement manufacturing, &c. The subscribers (who
ise one share each) are—C. F. Smith, Liverpool; E. L. Lewes,
irpool; J. S. Betts, Long Sutton; W. W. Townson, Liverpool;
Fidler, Liverpool; J. S. Rigby, Farnworth; G. Readdy, Livervol.

nl.

JOHN TESTER AND COMPANY (Limited). — Capital 20,000l., in are of 1l. To acquire and carry on a business of sewing-machine unfacturers and dealers, carried on in various localities. The submires (who take one share each) are—J. Tester, 119, Goswell-road; Dunn, Birmingham; J. E. Hough, Oldham; S. Law, Birmington; G. Kenway, Birmingham; T. Goodman, Peterborough; W. Vigne, Edzbaston.

Tince, Edgbaston.
FARRAR AND COMPANY (Limited).—Capital 50001., in shares of
To acquire and carry on an established business of leather merants and boot and shoe manufacturers at Southport. The submiters (who take one share each) are—J. Farrar, Southport; T.
teppard, Southport; J. Lawson, Southport; A. Williamson, Southest; A. Lord, Southport; J. Cowley, Southport; G. Thompson,

of: A. ford, southport, S. Cowley, Southport, C. Radipson, pathport, The New Hoover Hill Gold Mining Company (Limited).—
hillai 60,000L, in shares of 10s. To acquire and take over the sets and liabilities, &c., of a company bearing the same name, for the perpose of fully developing its property and carrying on all grations connected with a gold mining company, the extraction of crashing of quartz and other minerals, &c. The subscribers (who is one share each) are—G. Hopkins, 30, Parliament-street, C.E.; W. Stronge, 9, Osnaburgh Terrace, C.B.; G. Richardson, 3, Lomard-court, merchant; R. T. Lattey, 16, Devonshire-square, solicitor; L. Bower, 38, Craven Hill Gardens, gentleman; A. N. Frewer, 121, ling Henry's-road, gentleman. The first board is composed of the billowing gentlemen—G. Hopkins, C. W. Stronge, and G. Richarden, The number must not exceed six or be less than three, and the muneration for the Chairman 250L, and for each director 200L per mam; qualification 500 shares.

mm: qualification 500 shares.
The Beitrish and Foreign Produce Company (Limited). pipial 50,000%, in shares of 12. The business of importing, buyiny, eling, and dealing in cattle, sheep, swine, poultry, and all other kids of farm products. The subscribers are—E. Vortisch, 269, 50g*-road, 250; V. Sinclair, 48, Arundel-square, 1; H. J. Tweedie, 4, Calford-street, 1; C. Hirsch, 253, Brixton-road, 1; W. Lange, 2st Dalwich, 5; F. Natzler, Bishopsgate-street, 5; C. T. Leadbetter, Pritton. 1.

THE KENT AND SUSSEX FREEHOLD LAND SOCIETY (Limited).

THE KENT AND SUSSEX FREEHOLD LAND SOCIETY (Limited).—Capital 100,000%, in shares of 1%. To carry on the usual business of a land company and building society. The subscribers are—J. Essee, Rochester, 500; H. S. Pledge, Kennington Mills, 500; E. Imton, Ashford, 500; W. R. King, Ashford, 500; A. Checksfield, lahferd, 1; T. Justice, Ashford, 1: W. Baker, Ashford, 1.

THE LAND PASTORAL COMPANY OF SOUTH AUSTRALIA (Limited).—Capital 500,000%, in shares of 10%. To acquire land of any kenre, or interests in the same, and to carry on all businesses connected with farming, cattle and sheep raising, agriculture, &c. The shexibers are—H. Brooks, St. Peter's Chambers, 100; A. F. Buxton, &C. Threadneedle-street, 100; J. Harrold, 29, Great St. Helen's, 100; J. Stokes, 11, Gledhow Gardens, 100; H. Brooks, St. Peter's Chambers, 100; F. W. Stokes, 11, Gledhow Gardens, 100; A. Ashcroft, 29, Groombridge-road, 10.

THE BEXHILL GAS COMPANY (Limited).—Capital 5,000%, in

Grounbridge-road, 10.

THE BEXHILL GAS COMPANY (Limited).—Capital 5,0001., in hazes of 101. The making and supplying of gas to said town and in neighbourhood. The subscribers (who take one share each) are—J. Brown, Bexhill; G. W. Veness, Bexhill; A. Williams, 70, Bank-side; J. Church, 17n, Great George-street; T. H. Hovenden, 181, Emborsgate-street Without; R. Berridge, 15, Highbury Grove; J. Mainwaring, 15, Cappon-street.

side; J. Church, 17n, Great George-street; T. H. Hovenden, 181, Babopsgate-street Without; R. Berridge, 15, Highbary Grove; J. Baiwaring, 15, Cannon-street.

The Nottinghamshire and Midland Fire Insurance Company. The shareholders (who take 200 shares each) are—R. Birkin, Nottingham; T. T. Birtin, Nottingham; C. J. Cox, Nottingham; W. Lambert, Nottingham; C. J. Cox, Nottingham; W. Lambert, Nottingham; Bahford, Nottingham; C. Curtis, Nottingham; R. Evans, Nottingham; J. P. Cox, Nottingham; J. Oldknow, Nottingham. The Daybbook Weaving Company (Limited).—Capital 20,000%, in shares of 50%. The preparation, manufacture, and sale of carpets, 182, and similar fabrics. The subscribers (who take one share each) are—T. H. Tuesby, Nottingham; C. H. Addyman, Nottingham; A. Buller, Nottingham; J. Wade, Wortley; W. Lambert, Nottingham; J. Robinson, Nottingham; J. Hind, Nottingham.

The Automatic Boller-Feed (Limited).—Capital 12,000%, in shares of 11. The general business of engineers, boilers, and machinery manufacturers and repairers, machinists, &c. The subscribers (who take one share each) are—E. Wilde, South Tottenham; O. A. Watson, South Tottenham; J. Ralph, Stamford Hill; W. H. Jasper, T. Soven Sisters-road; T. J. Mendro, South Tottenham; O. Rawlings, Chelsea; E. Scott. Bucklersbury.

The Hull Queen's Ward Working Men's Club Company (Limited).—Capital 1000%, in shares of 11. To establish and maintain at Kingston-upon-Hull a club house, billiard rooms, reading moms, &c. The subscribers (who take one share each) are—J. Graves, Hull; H. Brigden, Hull; H. Haworth, Hull; J. Harrison, Hull; E. G. Oglesby, Hull; J. Tapp, Hull; A. Routledge, Hull.

6. 0gleaby, Hull; J. Tapp, Hull; A. Routledge, Hull.

COFFER IN NEW SOUTH WALES.—The Great Cobar Company nised, during 1883, 19,000 tons of ore, and smelted 18,096 tons, producing 2401 tons fine copper, value 158,4641. The total quantity of ore raised by this company, since it started in July, 1876, is 98,916 tons, which produced 13,388 tons of fine copper, valued at 858,4641. and it is estimated that there is sufficient ore in sight to keep the mine in full work for the next 25 years. The deepest shaft in the mine is 552 ft., and the deepest level is 324 ft., and the width of the lode is 60 ft. From the Great Central Company's Mine 1139 tons of ore raised since starting in April, 1882, was 1551 tons; ore smelted, 1148 tons. There are in this mine nine shafts, the deepest 120 ft. The despest level is 120 ft., and the width of the lode is from 3 in. to 11 ft. At the Nymagee Company's Mine 10,236 tons of ore was smelted in 1883, producing 1714 tons of fine copper, value 96,0001. The depth of deepest shaft is 390 ft.; deepest level, 310 ft.; width of lode, 3 ft. to 18 ft. The total quantity of ore smelted since the nine was started in 1880 is 23,007 tons, making 3717 tons fine copper, value 236,1007

Meetings of Public Companies.

MINERALOGICAL SOCIETY.

MINERALOGICAL SOCIETY.

The anniversary meeting of members was held in the theatre of the Geological Museum, Jermyn-street, on Oct. 21, Prof. T. G. BONNEY, D.Sc., F.R.S., P.G.S., in the chair.

Mr. R. H. SCOTT (honorary secretary), read the report of the Council, in which it was stated that the year had been marked by an important step in the history of the society—its fusion with the Crystallological Society—which was carried into effect at the special general meeting in December. The balance-sheet for 1883 shows signs of steady improvement, showing a credit balance of 174.0a. 4d., whereas the year had commenced with an adverse balance of 64.2a, 2d. The excess of assets over all liabilities on 1 and adverse balance of 64.2a, 2d. The excess of assets over all liabilities on 1 and adverse balance of 64.2a, 2d. The excess of assets over all liabilities on 1 and adverse balance of 64.2a, 2d. The excess of assets over all liabilities or 1 and adverse balance of 64.2a, 2d. The excess of assets over all liabilities of 1 and adverse balance of 64.2a, 2d. The excess of assets over all liabilities or 1 and adverse balance of 64.2a, 2d. The excess of assets over all liabilities or 1 and adverse of 1 and 1 and

KOHINOOR AND DONALDSON CONSOLIDATED MINING COMPANY.

An extraordinary general meeting of shareholders was held at the City Terminus Hotel, on Tuesday,
Mr. JOHN ELLIOT (the Chairman of the company) presiding.
Mr. W. H. Rowe (the secretary) read the notice convening the

neeting.

The CHAIRMAN said the shareholders had been called together for Mr. Collegue, and also from Mr.

Mr. W. H. ROWE (the secretary) read the notice convening the meeting.

Mr. W. H. ROWE (the secretary) read the notice convening the meeting.

The CHAIRMAN said the shareholders had been called together for the main object of hearing from Mr. Soliague, and also from Mr. Mallory (who, he was glad to say, was able to be present, he having been very unwell) their opinion of the company's properties. The shareholders would doubtless bear in mind that a meeting of the company was held in May last, and in compliance with the enrest wish of the directors a committee of shareholders was appointed to be associated with the board, and to assist them to investigate various matters, and, if they as wit advisable, to assist the board in the future conduct of the company until it could be got out of its the members of its had assisted the board in every possible way had been a vouce of great gratification to the board. They had cordially joined in every act of the directors since their election, and out of that fact had arisen this further fact that Mr. Soliague, having business to attend to in America, had kindly volunteered to go to the mines at his own cost, and to inspect them for the company, and give his opinion with regard to them. Mr. Soliague had been accompanied by Mr. Mallory, a mining expert of 30 years' experience, and of the gentlemen were now present, and he (the Chairman) could only tell the shareholders that the reports sent home by Mr. Mallory accompletely accorded with the views that he had all along entertained in regard to the properties that it was an unspeakable satisfaction to him to have them confirmed by a gentleman of Mr. Mallory's experience. He would ask Mr. Mallory to give the shareholders and secretary the shareholders are successfully, the Fland in the last of the mines, and then Mr. Soliague would address the middle and the state of the mines, and then Mr. Soliague would address the middle and the state of the mines, and then the shoots of ore dipped to a certain it cline in the lode, and he f

was given up to an examination of the mill. The mill site was one of the best in the whole of Colorado. They had a fall of water that would keep from 500 to 1000 stamps running. At present it was proposed to employ 50 Gilpin stamps, and these would soon be completed. On the following day they inspected the Champion Mine, which was 10,500 ft. above the level of the sea. The wire tramway from this mine went down without bend or break to the mill at Clear Creek, thus giving at present a continuous supply of 50 tons a day from the mine (the same quantity as from the Donaldson Mine) to the mill.

Mr. HOPKINS: How far are the mines distant from each other?

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Mr. HOPKINS: How far are the mines distant from each other?

Mr. HOPKINS: How far are the mines continued to the manager, and they were putting up some exceedingly fine machinery. He had visited the California, the Bobtall, and other mines; but he had seen no such works as they had at the Ohampion Mine. They had a body of ore at the Champion Mine which without any further development would take them years and years to take away. The ore would run from 310 to 315 per ton, and though the working expenses for labour and fuel were heavy they should certainly not exceed \$5 per ton, leaving a profit of at least 100 per cent. on the ore crushed. The mill was quite capable of doing very much more work, and he hoped that within the next 18 months or two years they would have 200 stamps running there. The gold was undoubtedly there, and all they had to do was to get it out of the ore. He had vis

The CHAIRMAN explained that for the Donaldson Mine 55001, was paid in cash and 34,5001. in shares, and for the Champion Mine 20,0001. in cash and 10,0001.

The CHAIRMAN explained that for the Donaldson Mine 5500%, was paid in cash and 34,500% in shares, and for the Champion Mine 20,000% in cash and 10,000% in shares.

Mr. SOLLAGUE, in continuation, said the Kohinoor Mine was of no practical value to the company, being 3 miles distant from the base of their operations. He had gone to the properties prejudiced against Mr. A. Rickard and his management; but he had been convinced that a more honest and conscientious man than Mr. Rickard did not exist. He therefore advised the shareholders to have confidence in their manager, and, above all, to find the patry sum of 4000% or 5000%, which was now needed to complete the works and put the company generally in a thoroughly satisfactory position.

The CHAIRMAN remarked that the Champion Mine had been bought on the authority of the reports furnished by various experts, including Mr. Rickard, and they were told that this mine alone would give them a profit of 20,000% a year. Had the shareholders responded as they should have done to the appeal of the board for more capital they would have been able to complete the works, and have been in receipt by this time of 15,000% or 16,000% a year. By not responding, the company had been placed in considerable financial straits.

Mr. SOLIAGUE mentioned that the operations of the tributers had been surpended, because they were picking out the eyes of the mine. As soon as the mill was completed the men would be in full work.

Mr. T. RICKARD, in reply to questions, said that there were now 40 or 50 men employed at the Donaldson Mine. The value of mines depended on their milling power to a large extent, and in this respect the company was most favourably situated. He fully confirmed the favourable views of the properties entertained by his brother, Mr. Alfred Rickard.

Mr. GEORGE HOPKINS described the terrible financial condition to which the company had formerly been reduced for want of capital. Their position had been made, and and in the shareholders on the improved position of the compa

needed.

After a lengthened conversation Mr. Unwick proposed a cordial vote of thanks to Mr. Soliague, Mr. Mallory, and Mr. Hopkins for their services to the company —Mr. Walsen, in seconding the motion, said he would follow the example of Mr. Urwick, and assist the company with money.

The motion was carried, and other promises of support were made. The meeting then closed with a vote of thanks to the Chairman.

DEVON GREAT UNITED COMPANY.

The meeting then closed with a vote of thanks to the Chairman.

DEVON GREAT UNITED COMPANY.

The ordinary general meeting of shareholders was held at the offices of the company, Austin Friars, on Wednesday,

Mr. Petter WATSON in the chair.

Mr. W. H. ALLEN (the secretary) read the notice convening the meeting. The report and accounts were taken as read.

The CHAIRMAN said: Gentlemen, before we go onto discuss the business of the mine, it is my painful duty to have to inform you that since the last meeting of the shareholders, held on May 29, our esteemed Chairman (the Right Hon. Lord Claud Hamilton) has died. On that occasion he filled the chair, as he had done since the commencement of the company, and throughout all its vicisitudes he had, with his colleagues, paid considerable attention to the development of the mines and the interests of the shareholders generally. He took a particular interest in this undertaking, and you will remember how at the last meeting he he mines and the interests of the shareholders generally. He took a particular interest in this undertaking, and you will remember how at the last meeting he you will see, 95 tons of one, realings 4(6). 15s., which was the highest price at the ticketing, while the two cost-sheets amounted to 477. 2s. 4d., thus show you will see, 95 tons of one, realings 4(6). 15s., which was the highest price at the ticketing, while the two cost-sheets amounted to 477. 2s. 4d., thus show reseal prices of copper now prevailings. 4d. only, another had a prost. Such, however, in the position of affairs at the present time, and as you will see by our report, the directors, after care-induced the present time, and as you will see by our report, the directors, after care-induced the present time, and as you will see by our report, the directors, after care-induced the present time, and as you will see by our report, the directors, after care-induced the present time, and as you will see by our report, the directors, after care-induced the present price for our property i

meeting.

Mr. Wilson formally moved "That it has been proved to the satisfaction of this meeting that the company cannot, by reason of its liabilities, continue its business, and it is advisable to wind up the same.——Mr. Stewart seconded the motion.

business, and it is advisable to wind up the same. — -Mr. STEWART seconded the motion.

Mr. APSEV said he thought the directors ought to make a decided effort to raise the funds needed by the issue of debentures, so as to avoid the necessity of winding-up and reconstructing.

Mr. Hinderson saked what programme the directors had to offer f——The CHAIRMAN said that, supposing the resolutions were passed and confirmed, it would be auggested to sell the property and assets of the company to a new Limited Company, to be formed for the purpose of working the mines; the capital of the new company to be 30,000£, instead of 24,000£, consisting of 12,000 shares of 2£,100\$, each, upon which 22, would be credited as paid, and that the balance should be paid as follows:—2s. 6d. per share on application, 2s. 6d. per share on allotment, and the balance as may be required by instalments of not exceeding 2s, per share each, at intervals of not less than three months. The first 5s, per share would give them 3000£, with which to pay off any debts, and to provide the capital necessary to work the property.

In section is the capital necessary to work the property.

Mr. Stewart asked what would be the position of those who might be unable or unwilling to subscribe any more money?—The GRAISMAN said they with the rest of the shareholders would receive a provata return of something like 2s. a share out of the subscriptions to the new company. The scheme which he had shadowed forth had been carefully considered by the directors in consultation with the solicitor, but it was for shareholders to suggest any other mode if they thought fit to do so.

shadowed forth had been carefully considered by the directors in consultation with the solicitor, but it was for shareholders to suggest any other mode if they thought fit to do so.

Mr. Wilson remarked that 12 months ago the position of the company was so bad that winding up seemed inevitable, but since then the mine had improved at every point, and surely this was not the time to abandon it.

Mr. Bawbix said they had 70 tons of copper ore ready to sample, and about 80 tons of arsenical mundic nearly ready for sale, and these ores would nearly meet the current costs. The cost-sheet now about due had been provided for.

Mr. Booth said it would be well if the manager would tell the shareholders his opinion of the prespects of the company.

Capt. RICHAEDS, in reply, said his opinion was that they had a very good property in prospect. They had passed over a lode for 30 fms. in length, and it had been productive all the way more or less, and his belief was that in the 120 fm. level they were on the top of a wast course of ore in addition to what they had in the 104 fm. level, and hestrongly recommended the shareholders to raise the money necessary to sink the shaft on it. They ought to sink 15 fms. deeper before driving another level, and this would take them 7 or 8 months; but in the meantime they would probably get a good discovery in the shaft, which would assist the further sinking below that point. As soon as they began to drive at a depth of 135 fms. he was confident that they would get into ore equal to that which they now had in the 120 west, which was now producing 2 tons of copper ore and mundic to the fathorm. There was also the 120 east and the 60 west, while the stopes in the 104 would more than meet the cost of taking the

tuff away there. The prospects were very good of reaching deposits which would pay them very well indeed.

Mr. Prodott: If the property belonged to you, what price would you sell it for?—Oapt. Richards: I would not sell it at all. I would work it.

The Charlemas: I would not sell it at all. I would work it.

The Charlemas: In the new company and 8000t. to be subscribed capital for working the property, if the shareholders considered that the better plan. In any case, a scheme would be carefully considered, and be again submitted to the shareholders at the confirmatory meeting.

Mr. Har suggested that the new company should consist of 12,000 B shares, which should be given to those who subscribed the new capital.

Mr. Barber (solicitor) pointed out that the details could be considered after the resolutions were confirmed. The expenses of the liquidation and reconstruction would probably be less than 200t., including the stamps. Probably the best plan would be for the directors to consult some of the large shareholders as to the reconstruction of the company.

Mr. Bawder said he had always entertained a very high opinion of the property, and he had never deviated from that opinion. A year ago, however, he is to nearly checkmated, and could hardly advise the shareholders what to do; but within a few days of that time rich discoveries were made in the two deepest points in the mine, in such a strata as to leave no doubt in the mine, in such a strata as to leave no doubt in the mine of the agents that they were in something very good indeed. Since that time the company had sold over 2000t, worth of ore from those points, and for the last two months the sales had been within about 70t, of the costs. He agreed with Capt. Richards as to sinking the shafts and driving the next level at a depth of 135 fathoms. The lode had gone down, worth 4 tons of ore to the fathom for over 30 fathoms, and this had never been touched. The discoveries in the 104 and 120 fathom levels were made at about the same time, and a cordial with

NEW CARADON MINE.

The ordinary general meeting of shareholders was held offices of the company, Gracechurch Buildings, on Thursday, Mr. J. Y. Watson in the chair.

Mr. C. B. Parry read the notice calling the meeting, as also the minutes of the previous meeting, which were duly confirmed.

The agent's report is as follows:—" In presenting you the following report I scarcely think it necessary on the present occasion for me to write a detailed account of this mine, having in former reports stated its position with regard to the mines in this neighbourhood, which yielded such large profits, together with the length and width of the sett, number of known lodes passing through it, &c. In my report for the last general meeting I recommended the driving of cross-cuts to ascertain the size and character of the lode; at the 50 fm. level. This has been partially carried out in the past quarter with, I am pleased to say, highly satisfactory results. By going east of the shaft, and cross-cutting north, we have intersected the lode I referred to in my report for the last meeting as No. I lode, and which is much disordered about the main cross-course, in which the shaft is sunk, but where we have found it away from the influence of the same it is larger and better defined, and producing more copper. We are now driving east on the course of the lode. It is from 3½ to 4 ft. wide, composed of peach, spar, &c., producing saving work for copper, and the best of the lode is in the bottom of the level, and I feel quite justified in recommending the sinking of the shaft without delay. This lode should by all means be seen deeper, as from its present appearance it can hardly fall to prove very productive for copper ore. We are also cross-cutting north at this or the 50 fm. level, at a point about 60 fms. west of the shaft, to intersect the lodes which we have in the 20, but which have never yet been seen at this level. As you have been advised, these lodes contain a little copper at the 20, and as we are now 30 fms. deeper, and the ground is of a more favourable character, I expect the lodes will show a considerable improvement at this level. The water-wheel continues to work well, and the pitw

promise that could be more cheaply proved than the New Caradon.—N. RICHARDS.

The accounts showed assets over liabilities 1031, 16s. 7d.

The CHAIRMAN explained that, slithough the accounts showed assets over liabilities, it was because they had taken credit for a sum of 2501, for bills receivable which had not been met. At the same time, however, the secretary held 1003 shares of the debtor as security against that 2501. He (the Chairman) had done everything in his power to get the money paid as well as to get in the calls in arrear, for as a holder of 1000 shares he had regularly paid his calls, and did not like finding money for those who did not pay.

Mr. SIMMONDS referred to an item in the accounts of "unpaid calls, 2561.," and asked what was being done with regard to getting that in?

The CRAIMAN, in reply, stated that everything that they could do was being done, and, in reply to a further question, said the names of those who were in arrear were on the table; from this list it was seen that two of the committee of management not present were among them.

This gave rise to some discussion, in which surprise was expressed by the shareholders present that these committeemen, who ought to have shown an example to the general body of shareholders, were thus in arrear.

Mr. DONNET then moved that the report and accounts be adopted, and that hey be printed together with the proceedings of the meeting, and circulated amongst the shareholders.

Mr. TOMLIN seconded the motion, which was carried.

Mr. SIMMONDS then moved, with a view to getting in the arrears of calls at once—"That the secretary be instructed to take immediate steps to get in the calls in arrear." He thought that they should proceed against those who would not pay up.—Mr. B. WHITE seconded the resolution, which was carried unanimously.

unanimously.

The CHAINAN then turned to the question of the future. The mine would cost about \$0.4 a month for working. They wanted to sink the shaft another 10 fathoms, from the 51 to the 60. There was the amount of merchants' bills against them, but that was covered by the calls in arrear.

Mr. TOMILIS moved that a call of 1s. per share be made, payable on or before Nov. 15, and that a discount of 5 per cent. be allowed on all calls paid tefore that data.— Mr. SIMMONDS seconded the motion, which was carried.

The meeting then terminated.

SOUTH DEVON UNITED COPPER MINES.

The ordinary general meeting of shareholders was held at the fices of the company, Austin Friars, on Thursday,

Mr. H. R. PATTISON in the chair.

Mr. F. R. A. FRANKLYN (the secretary) read the notice convening offices of the co

the meeting.

The CHAIRMAN, in moving the adoption of the report, said he could not say that he had a pleasing duty to perform, because it was quite clear that where there had been no commercial success in the City of The CHAIRMAN, in moving the adoption of the report, said he could not say that he had a pleasing duty to perform, because it was quite clear that where there had been no commercial success in the City of London there could not be any pleasure in bringing before share-holders details of transactions which did not show a profit. It was a disappointment to all, and to none more so than the directors. But the illfortune which had overtaken this company had also befallen a great many other similar enterprises. Of course this was no consolation, but it showed that others had suffered from the same cause—the low price of copper, which had rendered the continuation of enterprises like this a matter of great difficulty. If the price of copper had been higher the directors would have been able to show a much better state of things. The difference between the unit of copper at 15s. and at 10s. made all the difference between the unit of copper at 15s. and at 10s. made all the difference between profit and loss. In addition there had been, since the last meeting, a deficiency of water, which had led to a great loss. They had proved that they possessed a good mine in the locality, from a mining point of view, but not from a commercial point of view, because, as a commercial venture it had hitherto been a failure. There were no more funds with which to carry on explorations, or the continuance of works which might result in success. The directors had exceeded the means with which they had been entrusted, and the 2000L which the directors had provided had also been expended in a way which was highly advantageous to the company as regarded the position of the mine. The latest reports were increasingly satisfactory, and left little doubt that with more capital, and an earnest prosecution of the mine, the property might be brought into a paying condition. In fact they were now working at a loss of only 80L a month. It was a tempting state of things to go on, but they could not go on unless further funds were provided. He moved t

adopted.

Mr. Peter Watson said the directors had frankly taken the largest shareholders into their confidence, and had worked in every way they possibly could to improve the position of the company, and make it a paying concern. As regarded retaining Captain Hooper,

after the expression of opinion at the last meeting the directors advertised for a manager, and they had several applications, but there was not one applicant whom the board considered competent to under the was not one applicant whom the board considered competent to under the management of this mine. Therefore the matter went on under the management of Capt. Hooper, who, it was right to mention, had resigned his office, but who continued as a favour at the request of the directors. The costs had been cut down more than half. The directors had advanced part of the 5000l, on debentures, and had also subscribed a further 3000l, which had brought the mine into its present promising position. They had sunk a new shaft down from surface down to the 120 fm level. He could safely say that the directors had no fault to find with Capt. Hooper in the development of the mine and the sinking of the shaft. He had brought it down from surface to below the 125 within 18 months' time, and he challenged any man to show where a similar shaft had been sunk to the same depth in a similar time, and now it was in a good course of ore. As the Chairman had said, the price of copper had been against them, and there was scarcely a copper mine in Devon or Cornwall which was doing any good. The directors had done their very best to make this mine a success, and the loss had been reduced to about only 801, per month.

Some further discussion took place of no public interest, and some of it rather personal in its character, and then the amendment of Mr. Mathew Robins was put and lost only, one hand being held up in favour of it, and that hand being only the proposer.

nly the proposer,

The original resolution for the adoption of the report and accounts was then

The original resolution for the subpant of the content of Mr. Moody to a seat at the board be confirmed. He condemned the tone of the discussion, and expressed his belief shat the directors had done their best to make the company a success in the face of the greatest difficulties.

The motion was seconded and carried.

Mr. Pattison and Mr. Hobson were re-elected directors, and the auditors were

s-elected.

The meeting was then made special to consider the desirability of winding

The meeting was used in the open of the little of a plan for raising money, which he said would meet the approval of the board, and Mr. Bladon also submitted a plan which differed slightly in its details from that of Mr. Watson. In the end it was decided that between now and the confirmatory meeting a scheme should be sent round to the shareholders, who would be asked to express their opinion upon it at the confirmatory meeting.

The resolution for winding up the sompany was then passed, and the meeting broke up after a vote of thanks had been passed to the Chairman and directors.

SOUTH TOLCARNE MINING COMPANY.

An ordinary general meeting of shareholders was held at the offices of the company, Great St. Helens, on Wednesday,
Mr. Charles Clark in the chair.

SOUTH TOLCARNE MINING COMPANY.

An ordinary general meeting of shareholders was held at the offices of the company, Great St. Helens, on Wednesday,

Mr. CHARLES CLARK in the chair.

The SECRETARY read the notice convening the meeting, and the agents' report, which stated that since the last meeting the following work had been done underground. At the 70 fm. level they had driven a cross-cut south through the Flat lode, which was found at this point to be 18 ft. wide, near the south wall the lode produces a some good tin stones. They had also driven east and west on its course. The driven are consecuted to the second of the second of the control of the contro

MID-DEVON COPPER MINING COMPANY.

An adjourned ordinary general meeting of shareholders was held es of the company, Finsbury-pavement, yesterday, Mr. THOMAS NICOLLS ROBERTS in the chair. at the offices of the com

The MANAGING DIRECTOR read the notice convening the meeting, and the report of the directors stated that soon after the last meet-ing the directors felt it their duty to suspend sinking the main shaft, owing to the action of the lessor, whose lease expires at the end of owing to the action of the lessor, whose lease expires at the end of 1885, and who required such conditions for a renewal of the lease that they felt they could not accede to it. Although the matter had now been arranged, the delay has been so protracted in arriving at an understanding that little has been done in the way of sinking. The shaft is down within a few inches of 90 fathoms, at which point the ground is easier than it had been since the resumption of the sinking in October last. The 50 fm. level had been extended 5½ fms., the amount received for the ore raised about balancing that paid for wages. The upper levels had not yielded ore in sufficient quantities to meet the expenses of sinking, and it will be necessary at an early date to submit to the shareholders a proposition to raise further capital to enable them to continue their efforts to reach the 100 fathoms, and thoroughly explore the lode at that depth, which they believe will issue in results meet satisfactory to all interested in the mine. The directors will appeal with con-

e to the shareholders to assist in bringing their property

e-indition.

The CHAIRMAN said the directors had had very considerable difficulty in arranging the matter of the renewal of the leases, whis was one of the legacies left to increase their other difficulties. ficulty in arranging the matter of the renewal of the leases, which was one of the legacies left to increase their other difficulties by the former management; but after a great deal of negociation, is which his friend and colleague, Mr. William Hall, had taken active part, they had been able to bring the matter to a successful issue, it in incurring any expense whatever so long as there was any difficulty leads in incurring any expense whatever so long as there was any difficulty leads as to the renewal of the leases; but that difficulty having been happing from the shareholders were informed in the report that it was the intention of the subscription of capital in order to present the sinking vigorously, and he might say that in anticipation of subscription of capital they had given orders to the capital, in order to present the capital said that the sinking of A shaft was recumed on Wednesday such as the capital said that the sinking of A shaft was recumed on Wednesday such in the capital said that the sinking of A shaft was recumed on Wednesday such as possible. Having in view what the report stated, he really did not that there was anything further to be said; but he would be happy to save any questions. He proposed to go into the matter more fully when a shareholders were called together to consider the question of the desirability and the directors would take steps to inform them on the said; that the earliest possible date. He moved the reception and adoption and the report.—Mr. John GOULD seconded the motion.

Mr. OLLIVER saked how long it had been known that there would be disculty with the lessor with regard to the renewal of the leases?—The John GOULD seconded the motion.

Mr. OLLIVER said that seemed to show that the directors did not know a the containty sink the lessor with regard to the renewal of the leases?—The door with regard to the renewal of the leases?—The CILIVER said that seemed to show that the directors did not know a dout the affairs of the company.

Mr. GOULD pointed out that the di

The CHARRAM, in reprise a directors before endeavouring to obtain more capathought it right to try and secure a longer lease, and they had such obtaining a renewal for 20 or 21 years on the payment of a premium of 160 and an additional rent of 5f. a year. They had secured lease for the speaks potentially of the mine, which gave them all the property they required for 2 or 1 years. I years.

The motion was then put and carried.

The meeting closed with a vote of thanks to the Chairman and directon

LANGDALE'S CHEMICAL MANURE COMPANY

LANGDALE'S CHEMICAL MANURE COMPANY

The report of the above company for the 15 months ended Sept. 3) has just been issued. At the last general meeting it was decided that for the future the accounts should be made up to Sept. 30 is stead of June 30 in consequence of the development of the cospany's foreign business and the necessity of holding large stocks on June 3. The general meeting is to be held on Nov. 7, at Manchester. The report shou that for the 15 months the net profits amount to 58164, 13s. 5d., which togethe with 8404, for dividend on 3000 shares held by the company, 3734, 13s. received on account of promotion shares, and 30714, 8s. 3d. balance from last account makes a total of 15,1014, 11s. 8d. for appropriation. The directors recommend the payment of a dividend of 3 per cent, on the capital of the company, which will absorb 52384. that 33494, 12s. 10d. be appropriated to depreciation on last, buildings, plant, &c., and that 53134, 15s. 3d. be carried forward. The following table prepared by Mr. S. N. Challower, stock and share broker, Grey-first, Newcastle-on-Tyne, shows the progress of the company during the pat to

Year ending June 30.		Gross receipts by sales.	Net profits.	Total amount available for distribution.	D'vidend per cent.	Amount paid in dividends.	Balance carried forward.	Loan from Bank.	Value of stocks on hand.
		£	£	æ		£	£		,
1875		165,379					 57,894*	 48,261	37,742
1876		163,727	 10,909		 Nil.	 NII.	 18,261*	 53.883	34,697
1877		165,916	 14,707		 Nil.	 Nil.	 11,564*	 50,000	36,880
1873		157,857	 12,526	 12,526	 214	 4365	 8,1601	39.507	36,686
1879		131,129	 5,481	 14,167	 214	 4365	 9,8021	 36.669	54,553
1880			 628	 11,312	 234	 4365	 6,9471		38,012
1881			 4,587	 12,417	 3	 5238	 7,1781	 31,669	43,605
1882			 6,023	 13,832	 4	 6984		 30.000	51,771
1883		157,863				6981			52,000
1884		198,463	 5,816	15,101		 5238		 28,000	56,330
	-00		-,	* De		4 130	 -,,,,,,	 1000	ere dilyand

The loan from the Bank has been reduced by 25,8834, since 1875. The amount carried forward—65134, is equal to a dividend of about 3½ per cent, on the aginal of the company. In the beginning of 1878 the capital of the company are duced by 75,1454. 18s., which amount was appropriated by writing d 29,8554, S. 5d. Balance of goodwill paid vendor, 11,5644, 19s. 5d. difference tween par value and market price of 3000 shares which became the propriy of the company, 27244, 18s. 2d.; bad debts, 34504; errone-couly charged to aginal account, 8354, 10s.; legal expenses for arbitration, 49904, 5s.; depreciation on St. Lawrence Works, 18,3754; mark value of 3000 vendors shares. The share capital of the company at present standard 174,5964, 17s.

Monkton Works, 25001.; depreciation on St. Lawrence Works, 13,2751.; maist value of 3000 vendors shares. The share sapital of the company at present sizel at 174,5961. 178.

JOHN BAGNALL AND SONS.—At a meeting in Birmingham, or Tuesday, to receive the report of the liquidators (referred to in lat week's Mining Journal), and to consider a scheme for the reconstruction of the concern, Mr. E. Gem presided. The report of the liquidators having been taken as read, the Chairman said that is trusted that the state of affairs shown in the report which had been substited to them might satisfy them, if anything could be satisfactory in such all concern as that of Bagnaii and Sons. In pursuance of the policy they a liquidators had felt it their duty to follow—to as quickly as possible concentrate the state of a substite the same of the policy they aliquidators had felt it their duty to follow—to as quickly as possible concentrate the business, and retain only such portions of it as could be managed efficiently they had sold a considerable amount of property. They had send by the report that the gross profit of the past two years was 11,7374, and that the liquidator had had to pay 46284. In interest on the debenture debt and the mortgag det. The available profit was thus reduced to 71114. They had made improvement in the method of production, which had told very much in their favor, beiled beating up all the old connections of the firm, which had also had beneficial results. The object of that meeting was to consider the report of his bebte aliquidator and himself, and their proposal to reconstruct the concern. The believed that it would be as productive as they had set forth in the report, at the capital necessary for the purpose of reconstruction would be very small compared to the business they hoped to do. They would not be cripteled, and they believed that the would be a productive as they had set forth in the report of the behalf of the affair, to bring in another years of the propose of reconstruction to recoupt he construction, he was anguine that, should the present managements tinued it would prove a substantial success.—Mr. Bagnall explaining Mr. Hickman's prediction of a 15,0004, or 20,0004, surplus had not been set pointed out that the coal under the Gold's Green furnaces had been found, trary to expectations, to have been got, and that whereas the works weren when the prediction was made at 20,0004, their value was now put do 20,0004.—Mr. Engleton moved—"That the report of the liquidators, and proposed scheme for the reconstruction of the company, be approved, and the thanks of the meeting be given to the liquidators for their sardies Mr. E. J. Lloyd seconded the motion, which was carried.

Mr. E. J. Lloyd seconded the motion, which was carried.

PLYMOUTH, DEVONPORT, AND DISTRICT TRAMWAYS COMPART.

The directors' report and statement of accounts prepared for the forthcoming meeting have been issued to the shareholders. The balance-sheet shows a balance in hand of 492. 5s. 9d. In their port the directors state that they regret to announce that they have been unable to open the line for public traffic from circumstances over which they have had no control. At the meeting in January it was expected that the line would be ready for the official inspection in March or April, but owing to certain atterations which had been found necessary a delay of some four meetis had occurred. In the early part of July the sections Nos. 1 and 3, and the authorised portion of No. 4 were completed. On the 11th of that month the Bond fall parts before he would grant a certificate. In addition to this and some objections he was unable to certify for the use of mechanical power over portion of the No. 1 line, where the struts were marrow and the gradients steer. Yet stations are still pending with a view to the modifications of the requirements.

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Value of ato ... 30,012 ... 43,665 ... 51,771 ... 52,690 ... 56,380

of the

of productive ground.
The invoice represents 78½ tons of export ore of an average assay value of 250 cas, per ton.
The superintendent states that the chief points of interest to note have reference to the vein in the 20 south-west level, which in driving has maintained an average yield of from 3 to 4 tons per fathorn throughout the month of rich solid plombilerous export ore. At the date of writing, however, the ore in the end is reported of semort ore. At the date of writing, however, the ore in the end is matter, whilst blende predominates. He adds —In the sink under the sole of the 20, however, there is an improvement both in yield and quality as the sinking progresses, the vein containing an almost solid 14 in, rit of argentiferous galena, carrying free sulphides of silver throughout the length of the winze. The ground is hard, and on this account progress is somewhat slow. The west main is all particularly the 50 west, are showing good indications, and at time good atones of ore are broken.

So East.—The vein in this end is 3 ft. in width, composed of quartz and solist, and yielding small quantities of psyrices, but not of saving value.

West, South Wall.—The vein is 5 ft. in width, composed of schist interlead with quartz, and carrying speaks of blende on the foolwall; a trial is also being made on the north wall, but the vein here is hard and poor.

East Rise.—This having holed into the Esperanza shaft sunk beneath the 50 test greater portion of the month was occupied in completing the communities, an it in 24 saving down the ends of the shaft, &c. The vein is large but poor for mineral at this point.

To Drive, South-West from No. 2 Cross-Cut.—This drive which is being carries a branch of good quality mineral 4 in, solid.

Bogger's Winex.—East and west levels have been commenced from the bottom of this winze westwards to communicate with the 50 east, and eastwards to prove a farment of crown the incovering a west drive is also mineralised on the same wall. A portion of the vein reforms at this level. Th

Tolina Mining Company.—Advices received by the mail of 0.2. 27, of which the following is an abstract:—
Frias August returns \$22,672.434

Less charged in April ...

\$22,672.434 \$20,675.334 2,500.0 = 18,175.334

..... \$ 4,497.134 Fms. Ft. In. 75 3 2 61 3 2 14 0 0

70 Bottom Stopes, West of No. 2 Winze.—The ore to the west of the winze and east of the engine-shaft, is less productive than previously, but we anticipate finding its continuance in former strength on fts dip to the east of No. 2 winze, and over the back of the 80 east at this point.

70 West.—The vein in this end is 5 ft. wide, composed of dark blue schist and quarts, with good walks, and contains small leaders of pyrites and blende, with occasional traces of galena. The end is a little over 60 fms. distant from engine-shaft.

shaft.

60 West.—Good progress is being made with this level, which is driven about 85 fms. from engine-shaft. The vein maintains its strength and promising appearance for ore, and is letting out much water. Yesterday a good 4 in. leader of quartz, largely charged with blends and pyrites, was struck upon the north wall. We are hoping to find a steady improvement here, and any day an alteration for the better as regards produce of mineral may set in.

60 Bottom Stopes, West of Shaft.—These have continued to return fair average crusher work, the estimated yield being about 25 to 30 owts. per fathom.

Esperanza Shaft, and Bonanza Sink under 60.—These have been already referred to.

crusher work, the estimated yield being about 25 to 30 cwts. per fathom.

Esperanza Shatt, and Bonanza Sink under 60.—These have been already referred to.

60 West Rise.—A rise has been commenced a few fathoms from the west end to prove the backs. No ore has as yet been met with.

40 West.—The vein is 5 ft. wide, composed of carbonate of lime (calcspar), quartz, and dark-coloured schist, yielding occasional stones of mineral. The level is driven 52 fms. west of engine shaft to date. About 5 fms. behind the end a cross-cut has been commenced northwards upon a cross-joint with the object of proving the ground to the north of the main branch.

20 South-West.—This has been driven nearly 10 fms beyond the western cross-course. A considerable portion of this distance was upon a vein yielding from 10 to 12 in. of almost solid good quality mineral, estimated at from 3 to 4 tons per fathom of 400 czs. ore in the drive, and from 3 to 5 tons in the western backs. At date of writing the mineral is less solid however, and theore of a more mixed and somewhat poorer quality, but still showing a good yield estimated at from 50 to 60 cwts. per fathom of 250 czs. blendiferous mineral.

The stopes above this end will yield for about 1 fm. in height from 3 to 5 tons in per fathom in the south-west section upwards in a vertical direction; the vein is poorer. On the line of the dip of the ore the vein has not been proved upwards. In the north-east extension of these stopes the vein is not so rich, but, nevertheless, fairly productive.

The winze being sunk near the north-eastern limit of the ore asseen in driving the 20 has considerably improved during the month, and now contains a 14 in. almost solid branch of 400 czs. ore from end to end of the sink. The ore has gradually increased in width from 6 to 6, 12, and finally, at date of writing, to 14 in. May it still go on at the same rates.

Sabandia Mine.—I am glad to say that promising indications still continue in the 12 east from which end rich quality mineral is frequently broken

ssay. The lower adit is penetrating harder rock as cover is gained.

MINERS' BENEFIT SOCIETIES-THE MINERS' FUND OF NEW ALMADEN.

BY SAMUEL B. CHRISTY, UNIVERSITY OF CALIFORNIA. BERKELEY, CAL.

resided for the new source of the control of the co An abstract of this paper, which was read at the Chicago meeting of the American Institute of Mining Engineers, was published in the Mining Journal of July 19; it is now subjoined in full. At the previous meeting of the Institute several contributions were made to the subject of miners' aid funds. Such matters will always form important factors in the administration of large industrial enterprises. From the frequently remote and isolated position of mining properties it is a subject that often forces itself upon the attention of the mining engineer. Local conditions are usually so variable that no single method can be found equally well adapted to all localities. At the same time a study of different types is often suggestive and valuable, and it is with this in view that these notes are presented. The Miners' Fund of New Almaden is a remarkably successful ex-

At the same time a study of different types is often suggestive and valuable, and it is with this in view that these notes are presented.

The Miners' Fund of New Almaden is a remarkably successful example of what may be done for miners by a wise and at the same time firm management, by simply directing their own efforts and without incurring any great expense to the stockholder—a practical consideration not without importance in most cases. The quicksilver mines of New Almaden are situated at a distance of 15 miles by wagon road from San José, the nearest town from which medical and surgical aid can be summoned. The great delay in case of accident and the expense in cases of long illness naturally gave rise to much difficulty in the early history of the mine. Physicians would charge a fee of \$25 for each visit; so that as a matter of mere economy it was cheaper to die than to fall ill.

In order better to understand the conditions of the problem, a word as to the number and nature of the population will be necessary. The total number of men on the company's pay roll at the mine and hacienda (reduction works) varies from 400 to 700 men. The total population is estimated to vary from 1400 to 1600. The last school census showed:—316 children between 5 and 17 years at the hacienda.

The total population is estimated to vary from 1400 to 1600. The last school census showed:—316 children between 5 and 17 years at the mine; 105 children between 5 and 17 years at the hacienda. The total number of miners was estimated at 600. By far the larger part of this population resides at the mine in the so-called English Camp and Spanish Town, the rest live at the hacienda, all on the company's property. This population is largely Spanish-American. Nearly 75 per cent. are of this origin. Most of these are Mexicans; a few are South and Central Americans. About 20 per cent. are Cornish miners and their families; the other 5 per cent. are Germans, Swedes, and other foreigners, with a few Americans.

Two unsuccessful attempts were made to furnish efficient medical and surgical aid to the mine. The first attempt was made by the management as early as the fall of 1864 to secure the services of a competent physician. Each male adult at the mine was required to pay \$1 per month, in consideration of which he and his family were furnished with medical attendance and medicine. The whole sum collected was paid over to the physician who gave his whole time and furnished the medical supplies. Of course this innovation led to much opposition, complaints being made against the compulsory nature of the contributions; so that the scheme was abandoned after a trial of three months. From that time till the spring of 1870 the people were left to the tender mercies of local quacks, or were compelled to send to San José as before. At the period named the need of a change was so strongly felt by the miners themselves that a system of voluntary subscriptions was started among them. The plan this time was to pay over the whole sum to two competent of a change was so strongly let by the inhers themselves that a system of voluntary subscriptions was started among them. The plan this time was to pay over the whole sum to two competent physicians of San José, who agree to visit the mine every other day, alternating with each other; they also agreed to furnish all necessary medicines, and to come on odd days without extra charge in cases of emergency. This plan worked well at first, but dissatisfaction arose from the fact that many of the miners who were non-contributors still received nearly as much benefit as those who paid. By tributors still received nearly as much benefit as those who paid. By degrees, therefore, the number of contributors decreased until the fund became insufficient to pay the physicians; and so the second plan, that of voluntary subscriptions, failed.

plan, that of voluntary subscriptions, tailed.

The result of this experiment did much to convince the miners that compulsory contributions were necessary to make such a scheme a success; so that in the latter part of 1870, soon after the direction of the mine was assumed by the present manager, Mr. J. B. Randol, the miners were ready to petition that he assume control of the fund, and that contributions be made compulsory. After convincing himself that this was the wish of a large majority of the employees and residents. Mr. Bandol established what is now known as the Miners. residents. Mr. Randol established what is now known as the Miners Fund, and assumed entire control as trustee. He has occupied this posi-tion for over 13 years without salary, and to his skilful management is due the high state of practical usefulness which the fund has reached in spite of previous failures. At the time he began the apparent future of the mine did not justify any additional expense on the part of the company; while on the other hand it was equally evident that the fund should be in such a position that it could offer sufficient in spite of the fund should be in such a position that it could oner sumient permanent inducement to a competent physician for him to abandon his regular practice and become a resident at the mine. With these things in mind the organisation was effected, the rules and regulations of which have since been modified from time to time, as experience under the peculiar conditions suggested. The rules and regulations now in force may be gathered from the following notice posted at the mine :-

MINERS' FUND. he benefit of the residents of New Almaden, is

This fund, instituted for the benefit of the residents of New Almaden, is established upon the following basis:—

I.—Employees of The Quicksilver Mining Company, heads of families, and all other adults residing at New Almaden, each pay monthly into said fund, \$1.

The money so contributed is held by Mr. J. B. Randol, trastee, to be paid out for the following purposes:—1. The salaries of a resident physician, and of a druggist,

and for the purchase of medical supplies.—2. For relief of contributors whom circumstances may entitle to the same, and for other contingent expenses.

II.—Contributors are entitled, without further payment, to the attendance of the resident physician for themselves and their immediate families (except that prescribed by him on payment of each \$3, and will be furnished with medicines prescribed by him on payment of each \$3, and will be furnished in the nature of a gift, or as an advance to any expense for relief of persons indigent, or otherwise—any, for medicines, nurses, or supplies—it will be regarded in the nature of a gift, or as an advance to be repaid as the trustee may decide to be just, considering the circumstances of each case.

IV.—It is expressly agreed that when the resident physician is called to attend any person not a contributor to the fund there shall be a charge of not less than \$5 for each visit to be paid into the fund, and to be charged against and collected from the head of the house where such non-contributor may be living.

V.—The trustee serves without pay, and in consideration thereof it is understoomed that the fing of the payment of the summary of the contributors, or any of the summary of the contributors at New Almaden, and upon any money due, or to become due, them for wages from The Quicksilver Mining Company, which money said company is authorised to pay over to said dum without further notice.

New Almaden, February, 1833.

The peculiarities of the large Mexican element in the population necessitated many of the changes which were made in the rules of the fund as it was first established. For instance, at first no charge was made for medicines furnished. But it was soon found that the Mexicans would often draw medicines to double the value of their contributions whether they needed it or not. A friend of mine, recently physician on a Mexican railroad, where the Government requires that medical aid shall be furnished by the company, says that the same difficulty arose from the

the fund. It maintains a burial plot at the San Jose cemetery and also one at the bacienda, and another on a sandstone hill near the mine, which latter is not very popular among the miners for obvious reasons, although no ore as yet has been discovered there.

The physician is paid a regular salary of \$350 a month, and is required to make a monthly report to the trustees of—The number of visits made each month; the number of office prescriptions; the number of eace of salivation. A professional druggist is employed at the number of vaccinations; the number of obsettic cases; the number of cases of salivation. A professional druggist is employed at the mine to attend to prescriptions; but, as he also acts as clerk for the mine, only the time he is actually engaged as druggist is charged to the fund, at the rate of \$25 per month. The collections are made and the accounts kept by the regular bookkeeper of the mine, who receives a salary of \$20 per month from the fund.

A complete record of the fatal accidents during the last 13 years have the term bear. During the last funds the rest heart father than the same than the same than the same than the same term of the same term of the same terms of the same terms

and the accounts kept by the regular bookkeeper of the mine, who receives a salary of \$20 per month from the fund.

A complete record of the fatal accidents during the last 13 years has not been kept. During the last four and a half years there have been just nine, or an average of two per year. During this time there have been on an average 440 men employed; this would make an average of less than half of 1 per cent. of fatal accidents per annum. It is a remarkable fact that in none of these fatal cases did the patients live long enough for treatment. In seven cases death occurred instantaneously, and in the other two, within half an hour. Three of these accidents happened at the surface and six underground. During the last four and a half years the highest annual mortality from all causes was 15 per 1000. Cases of salivation never occur at the furnaces at present, except through extreme carelessness. The chief trouble of this sort at the hacienda is from cleaning the condensers and working the soot. During 1883 there was no salivation at all at the hacienda. In previous years there has been more or less from the cause stated.

Formerly there was very little salivation in the mines, the cinnabar ores never giving any trouble of that kind. But at present, in working the rich labores, or stopes, of the 1600 and 1700 ft. levels of the Randol shaft, which contain a great deal of native quick-silver, there has been some trouble from this cause. This ground is in places thoroughly impregnated with native quick-silver, there has been some trouble from the size of a pea to microscopic globules disseminated through it. Of course the air in such labores is pretty thoroughly saturated with quicksilver vapour, in spite of all attempts at thorough ventilation. The chief source of absorption seems, however, to have been the skin. As the labores are rather warm the men work by preference stripped to the waise of a pea to microscopic globules disseminated through it. Of course, the air in such labores is pretty thoroughly sat

treatment follows the odide of potassium method. Men disabled by salivation get half-pay.

A remarkable fact is the facility with which the Mexicans recover from wounds resulting from accidents or quarrels, while at the same time they succumb very readily to the attacks of disease. Their chief difficulty is with lung troubles, pneumonia, consumption, and the like. This seems partly due to constitutional predisposition, but largely to their careless, reckless life. They will frequently come out of the hot labores after a day's work, and without change of clothes expose themselves to the weather or a night of dissipation. The Mexican miners, although occasionally very well developed, do do not as a rule last as long as the Cornishmen. The latter being more particular about wearing dry clothes at the surface, and not exposing themselves recklessly, suffer much less from lung troubles. The average age of the miners employed is 35 to 40 years, although some of them are 60 to 70 years old. A few boys and no women are employed in the mine. employed in the mine.

NEW SOUTH WALES KEROSENE.-In speaking of the keroset mineral from Joadja Creek Mine, near Berrima, Mr. Dixon, the well-known Sydney analytical chemist, says:—"This mineral resembles the Boghead mineral from Scotland, but is considerably lighter, having a specific gravity of 1-098 against 1-20. The yield of volatile

hydrocarbons is much greater than from even picked specimens of Boghead, whilst the ash is only half as great as in that mineral."

NEW SOUTH WALES GEM STONES.—Among these is the spinel ruby. It is found in most river deposits containing gold, as in the New South Harmonian river deposits containing gold, as in the sands of the Severn and its tributaries, at Uralla, county Sandon; Bingera, county Murchison; at Werong, with gold, zircons, blue and green sapphires, and other gems; Two-mile Flat, county Hardinge; Bathurst, Macquarie, Peel, and Cudgegong Rivers. Spinel is said to occur in the sandstone on the road near the Fitzroy Iron Mines, Nattal. The late W. B. Clarke also mentions occurrence of minute spinel rubies in carboniferous sandstone at Kayon, Richmond River, but states that they are probably derived from the igneous rocks of which most of the beds in the Richmond River District are the recomposed materials.

PROVINCIAL STOCK AND SHARE MARKETS.

PROVINCIAL STOCK AND SHARE MARKETS.

CORNISH MINE SHARE MARKET.—Mr. S. J. DAVEY, mine share-dealer, Redruth (Oct. 30) writes:—Our market has not been very active this week, but Carn Brea advanced 1½, Pedn-an-drea ¾, and Wheal Agar ½. West Kitty has fallen ½, Dolcoath and East Pool close without much change on the week. To-day market is steady. At Tincroft smeeting a call of 5s, per share was made. Subjoined are the closing quotations: —Carn Brea, 3½ to 4; Cook's Kitchen, 9 to 10; Dolcoath, 55½ to 66; East Pool, 37½ to 38½; Killifreth, 12s, to 14s, New Cook's Kitchen, 9 to 10; Dolcoath, 55½ to 66; East Pool, 37½ to 38½; Killifreth, 12s, to 14s, New Cook's Kitchen, 9 to 10; Dolcoath, 55½ to 66; East Pool, 37½ to 38½; Killifreth, 12s, to 14s, New Cook's Kitchen, 9 to 10; Dolcoath, 15; West France, 5 to 5½; Tincroft, 5½ to 68½; Tervannance, 1½ to 2; West Basset, 1½ to 1½; West Frances, 5 to 5½; West Kitty, 8½ to 9; West Polbren, ½ to 3½; West Wheal Seton, 2 to 3; Wheal Agar, 17 to 17½; Wheal Basset, 2 to 2½; West Wheal Seton, 2 to 3; Wheal Agar, 17 to 17½; Wheal Basset, 2 to 2½; West Grenville, 5½ to 6; Wheal Kitty, ½ to ½; West Wheal Sten, 2 to 3; Wheal Agar, 17 to 17½; Wheal Basset, 2 to 2½; West Grenville, 5½ to 6; Wheal Kitty, ½ to ½; West Wheal Seton, 2 to 3; Wheal Agar, 17 to 17½; Wheal Dray, ½ to 5½; Carn Brea, 3½ to 4; Cook's Kitchen, 9 to 11; Dolcoath, 55½ to 66½; East Biue Hills, ½ to 3½; East Pool, 38½ to 3; Killifreth, ½ to ½; New Cook's Kitchen, 1 to 1½; New Kitty, 1½ to 1½; North Busy, 2s, to 3s, 2 Pedn-an-drea, 1½ to 1½; Polerro, 1½ to 2½; South Condurow, 8 to 8½; South Kitty, ½ to ½; South Condurow, 8 to 8½; South Kitty, ½ to ½; South Condurow, 8 to 8½; South Kitty, ½ to ½; South Frances, 8½ to 6½; West Frances, 5 to 5½; Wheal Kitty, ½ to 1½; You Kitty, 3½ to 3½; West Kitty, 3½ to 3½

Basset, 1% to 2; Wheal Grenville, 5% to 6; Wheal Kitty, % to %; Wheal Uny, % to %.

— Mr. M. W. BAWDEN, Liskeard (Oct. 30), writes:—The mining market is dull, and appears to have resumed its former quietude. The advance on the tin standard not being maintained, since followed by a reduction of 22, the irregularity and fluctuation on the price of tin has again depreciated most stock. Pedin-an-drea United shares in demand, and advanced to 1½ buyers on an improvement in the 100 cast. Subjoined are the desing quotations:—Bedford United, 1½ to 1¾; Bine Hills, % to %; Carn Brea, 3½ to 3½; Cook's Kitchen, 10½ to 11; Dolcoath, 65½ to 66; Devon Consols, 2 to 2½; East Pool, 37½ to 35; Glasgow Caradon, ½ to ½; Gunnislake (Glitters), ½ to 3½; Killireth, ½ to 5½; Marke Valley, ½ to ½; Old Gunnislake, 1st to 1s. 6d.; Pedinan-drea United, 1¼ to 1½; Pinenix United, 1½ to 2; Prince of Wales, ½ to 3½; South Oroto, 3½ to ½; South Devon United, ½ to ½; South Frances, 6½ to 6½; St. Just United, 14 to 4½; Tincroft, 6½ to 6½; West Baset, 2 to 2½; West Caradon, 1st to 1s. 6d.; West Frances, 4½ to 5; West Kitty, 9 to 9½; West Caradon, 1st to 1s. 6d.; West Prances, 4½ to 5; Wheal Kitty, 9 to 9½; West Caradon, 1st to 1s. 6d.; Wheal Grenville, 5½ to 6; Wheal Kitty, ½ to 5½; the all Uny, ½ to ½.

—Mr. John Carrer, mine sharedealer, Camborne (Oct. 30), writes:—The share market this week is dull and depressed. On Oct. 25 the tin standards were reduced 2s. Carn Bress advanced on an improvement, but close weaker to-day. Wheal Agar and West Frances continue firm. The following are the closing quotations:—Carn Bress, 3½ to 13½; Cook's Kitchen, 9 to 11; Dolcoath, 65½ to 65½; East Pool, 38 to 38½; Killifreth, 1ls. to 13s.; New Cook's Kitchen, % to 1; New Kitty, 1½ to 1½; South Condurrow, 2 to 8½; South Crofty, 1% to 2½; South Frances, 6½ to 6½; West Basset, 13½ to 1½; West Basset, 13½ to 1½; West Basset, 13½ to 1½; West Bress, 5½ to 6½; West Kitty, 9½ to 8½; West Basset, 13½ to 1½; West Gress, 13½ to 1½; West Basset, 13½ to 1½; West Brances, 6½ to

MANCHESTER .- Messrs. JOSEPH R. and W. P. BAINES, sharebrokers, Queen's Chambers, Market-street (Oct. 30), write:—The usual restriction in new business which prevails during the progress of a settlement has been more than ordinarily noticeable this week, or a settlement has been more than ordinarily noticeable this week, for besides the attention given to accounts there has been the further drag of falling prices, causing operators to have a more decided disinclination to enter into fresh engagements. The price of money, and its more than probable early advance, has no doubt exerted a powerful influence on values of home rail-way stocks, and for some days prices have been tending in buyers favour almost all round, but when the advance in the Bank rate was announced the market went better, assisted doubtless by rumour of better things in the into trade, which though assisting some English and Sootch stocks is not yet reflected in prices generally for shares of iron concerns. The paucity of business is most noticeable in the miscellaneous classes of investments, transactions therein for the period the settlement has been progressing being very meagre indeed, and the aggregate for the week reaching but a poor total. Foreign funds are somewhat irregular, and excepting the prominent advances in Egyptian issues the balance of movement is distinctly adverse, rise being confined to an ½ each in Russian Five per Cent., 1873, and Turkish General Debt, whilst the following are lower:

—Portuguese, 1½ to 1½; Brazilian Five per Cent., 1875, 1; Argentine Hard Dollar, 1; ditto Pablic Work, ½; Spanish, ½; Italian, ½; Mexican Three per Cent., 1851, ½; and Peruvian ISix per Cent., ½, olonial Government Bonds and Corporation Stocks, &c. are deals in to some extent, but the turn of prices on revision is downward. Canadian Four per Cent., 1s 1; ditto Inscribed, ½; Cape of Good Hope Five per Cent., ½; and Manchester Corporation Fur per Cent., ½; alwester, ½; sellers' price remaining unaltered.

BANKS alone of the miscellaneous classes show any activity, and herein busifor besides the attention given to accounts there has been the further

Cent. & lower, against which all the approach to advance there is to notice in a rise in buyers' figures for Leeds Four per Cent. of ½, sellers' price remaining unaltered.

Banks alone of the miscellaneous classes show any activity, and herein business is comparatively good. National Provincial are quoted ½, and Adelphis, ½, down. On the other hand, Manchester and Liverpool Districts are ½ higher.—INSURANCS shares still very quiet, but prices have undergone some revision, with the following result:—Higher: Thames and Mersev Marine, ½; National Bolier, ½; Reliance Marine, ½, to ½,—Lower: United Fire Re-Insurance, ½; Ses, ½,6; Liverpool and Lancashire Fire, ½; and Maritime.——Coal, Iron, &c., And Minning quite neglected. The alterations in prices are contradictory.—Higher: Nanty-glo and Blaina, Preference, ½ to 1; Earle's Shipbuliding, ½; Great Laxev Lead, ½; Park Gate Iron, ½; and Tharsis Sulphur and Copper, ½.

—Lower: Staveley, A. ½ to ½; John Brown's, 1; Rio Tinto, ½; Cammell's, ½; Nalmer's Shipbuliding, B. ½; and Canada Copper, &c., 3d.

—Corrox-Spinning, &c.—Shares steady, but without any further distinct development of recent advance in prices.——Telegraphs rather better, on the whole. Telegraphs and Canada Copper, &c., 3d.

MISCELLANGOUS: Manchester Carriage and Trams of all issues are lower, and Gas Light and Coie, A, Ordinary, are marked 1 down.

RAILWAYS.—The continued anticipations of dearer money have been realised to-day by the advance of the Bank rate to 4 per cent. Up to to-day markets hang heavily all round, but on the Bank rate to 4 per cent. Up to to-day markets hang heavily all round, but on the Bank rate to 4 per cent. Up to to-day markets hang heavily all round, but on the Bank rate to 4 per cent. Up to to-day markets hang heavily all round, but on the Bank rate to 4 per cent. Up to to-day markets hang heavily all round, but on the Bank rate to 4 per cent. Up to to-day markets hang heavily all round, but on the Bank rate to 4 per cent. The Canadian markets, after having been decidedly lower, h

SCOTCH MINING AND INDUSTRIAL COMPANIES SHARE MARKETS.

EDINBURGH.-Messrs. THOS. MILLER and SONS, stock and share brokers, Princes-street (Oct. 29), write:—The only important movement in Scotch railways since last report have been in Great North and Highland. Great North made a spring on Monday from $52\frac{1}{4}$ to

54%, but has since relapsed to 53%. Highland, which is now quoted ex dividend, has recovered to the same price, 30, at which it stood before the dividend was taken off. In banks, Royal and British Linen have risen, and Clydesdale and Commercial are rather lower. The shares of colonial and American investment companies have been moderately active. Prairic Cattle shares lat and 2nd issue have declined. Arkanas Valley as well as Bwan Land and Cattle are rather better. Arizona Copper have continued to be dealt in at fluctuating prices. To-day they made an advance from 13, to 18, 6d.; and the 2nd issue rose from 13, 94, to 18, 6d. Burntisland Oll have advanced on a favourable report by the directors. Midlothian, Pumpherston, and West Lothian Olls are also higher. The "backwardation" paid on Lanark Oll was ligher at last settlement than for either of the previous two accounts, and the price has declined. Standard Life have been sold at a reduction of 26,, but the changes on other insurance shares are not important. Nobel's Explosives have, as usual, been very fuctuating, but they mark an appreciable advance within a week. Since Wednesday of last week Arizonas have changed from 18a, 3d. to 18, 6d.; the 2nd issue from 18a, to 18a, 6d.; Cairntable Gas Coal from 6½ to 6%; Tharsis from 5½ to 5-15s, 6d.; Burntisland Oll from 18½ to 17; Lanark Oll from 58 to 17; Lonark Oll from 58 to 17; Lanark Oll from 58 to 17; Lonark Oll from 58 to 18; Lonark Lonard Lona

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

BEDFORD UNITED.—H. Tresise, Oct. 28: I beg to hand you my setting report for eight wesks ending Dec. 23. The 138 cast, north lode, to drive by six men, at 101. los, per fathom; lode worth 47. There tribute pitches set to six per fathom. The 75 cast to drive by four men, at 51. 10s.; lode of a promising character, producing asying work for ore and mundie. The 15 west to drive by six men, at 52. 10s, per fathom; lode large, composed of mundie and capel. The 62 west to drive by four men at 21. 10s.; lode worth 48. No. 2 byte met of the 52 west to drive by four men at 21. 50s.; lode worth 48. No. 3 byte men, at 11. 5s, per fathom; lode worth 41. No. 3 tope in the back of the 62 west by two men, at 12. per fathom; lode worth 44. No. 5 stope men, at 11. per fathom; lode worth 44. No. 5 stope men, at 11. per fathom; lode worth 44. No. 5 stope pitches at the 62 cast and west by eight men, two at 58., and two at 10s. in 14. The 62 cast to drive by two men, at 54. per fathom; lode ont taken down. The 2 cast to drive by two men, at 54. per fathom; lode 4 ft. wide, worth 122, per fathom, a very promising lode. Stope in the back of the 42 by two men, at 12. per fathom; lode 4 ft. wide, worth 122. per fathom, a very promising lode. Stope in the back of the 42 by two men, at 12. per fathom, and 12. per fathom; lode 4 ft. wide, worth 124. The 15 cross-cut south there is nothing new to remark on. In the 105, west of cross-cut on south lode, the appearances are as favourable as when last reported, the lode being rather more than 5 ft. wide, yielding throughout black and yellow copper ore in peach, and solt spar with occasional rich stones of tim. The present price for driving this end by six men is 77. los, per fathom; but the letting price to-day would be cut the stope of the stope

lode proving 4 ft. wide, of a very promising character, and are greater part of the distance driven some good stones of copper ore and 2 tons of mundic per fathom.

DEVON GREAT UNITED.—Isaac Richards, Oct. 30: In the 120. east of Willesford's shaft, no lode has yet been taken down since last advice. In the 123, west of Willesford's shaft, the lode is from 2 to 3 ft. wide, and yielding 2 tons of copper ore and mundic ores per fathom, and is altogether of a promising character. In the 60, west of Watson's shaft, the lode is 12½ ft. wide, composed of capel and quarta, and peach, with some good quality copper and mundic ores. In the cross-cut south at the 40 the ground continues of a very congenial character for the production of mineral. We shall sample to-morrow about 75 tons of copper ore of good quality.

DERESHY.—J. Roberts, Oct. 29: The water is now drained 10 fms. 2 ft. below the No. 5, and fair progress is being made, considering the great dimensions of the workings which are now reached. We have now completed the timbering of the new shaft down to the place where the communication was made to the rise, and the men are now completing cutting down the ground about that place, which will take three or four days.

DRAKEWALLS.—Thomas Gregory, Oct. 33: We have completed the clearing of the 102 to the end, and I am pleased to inform you we have this day resumed the sinking of the engine-shaft below the above-named level. The lode here is of a favourable character, and some good stones of tin have been broken. I hope to report on this point more fully next week. The north lode maintains its size, and is producing fair quality stampwork. All is going on satisfactorily in and on the mine.

SHARE MARKETS.

STIRLING.—Mr. J. GRANT MACLEAN, stockbroker and ironbroker (Oct. 30), writes:—During the past week there has been little business doing, and prices are generally lower, in sympathy with the dull state of trade and the upward tendency of the Money Market. There are, however, signs of recovery in the iron trade, which if make the production of the many parts of the many par

winding machinery
winding machinery
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FRONGORI.—J. Kitto and Son, Oct. 25: Monthly Report: Since the date
from the state of our last report we have had a fair supply of surface water for all our requirements, and the winding and dressing of ore, together with the other mining
operations, have been carried on with the usual regularity and energy. In reference to our underground work, we have recently put a set of men to rise
above the roof of the 44 in the ore ground lately opened at that level, and referred to in our previous reports; and we have put another set of men to sink
below the 34 towards them, in order to effect a communication between these
levels and prepare this section of ore ground for stoping. At each of these

places the lode will produce fully 3 tons of blende and about 5 or 6 ovt. of last ore per fathom, which will pay all its working expenses and leaves a large well over extraction or every final rest. We have several other sections of lead and blende ground of similar rates different levels throughout the mine, some of which we have not seem to expect a full supply of water, we purpose resuming operations those sixt to expect a full supply of water, we purpose resuming operations this wills as a slight improvement in the prices of lead and blende ores is will be followed and carrying on a vigorous development of the mine, believing that wills as a slight improvement in the prices of lead and blende ores is will be followed by profitable results. On Cet. 22 we sold to Villiers and con 10 tons of blends at 3i. 1s. 6d. per ton, and have sampled another 180 tons for sale on Oct. 21 of AWTON.—George Rowe, Oct. 27: We have nothing new to report in any point of operation during the past week. All our surface work is progress; satisfactorily.

GOSINAN.—J. Kitto and Son, Oct. 25: There has been no change working remark at any part of the mine since our last report. The three prodesin points at the 70, 50, and 40, referred to at that time are still yielding see. Is cover, of silver-lead ore per fathom respectively, which will pay very well-point at the 70, 50, and 40, referred to at that time are still yielding see. Is covered and incidental expenses, in fact, if we had large sections of sale quality ground we could work the mine profitably even at the present low reforms the following see that the well of the same quantity next most and Son 10 tons of silver-lead ore at 102. 3s. 6d, per ton, which is now had delivered, and we expect to get and sell about the same quantity next most and Son 10 tons of silver-lead ore at 102. 3s. 6d, per ton, which is now had delivered, and we expect to get and sell about the same quantity next most and Son 10 tons of silver-lead ore at 102. 3s. 6d, per ton, which is now had delivered, and

on on healtate to say that the prospects are excellent, and leaves very like do not healtate to say that the prospects are excellent, and leaves very like do not healtate to say that the prospects are excellent, and leaves very like do not healtate. The first control of the comparison of the compari

working well. Dressing also making tair progress. Have soul at one or and blende for salised 524. 158. 64., and sampled a parcel of blende for ship a Nov. 5.

GREEN HURTH.—James Polglase, Oct. 23: We are making preparations in driving the bottom level, north from Swan shaft. The 44 level north is wet about 154 ton per fathom. The ground between the shaft and No. 2 winzenth in back of 44 level, is getting exhausted. No. 1 stope, in back of the 44, neth in back of 44 level, is getting exhausted. No. 2 stope is worth 15 ton per in No. 3 stope, in back of Standage, is worth 3 tons per fathom. No. 4 winze, bley of No. 2 winze, is worth 6 tons per fathom. No. 2 stope is worth 15 ton per in No. 3 stope, in back of Standage, is worth 3 tons per fathom. No. 4 winze, bley in hazel; the vein is beginning to take its regular bearing, and worth 1 ton per fathom. The rise in the back of the 30 level proper is improving. The additive east is without change. Dressing going on as usual.

HEALEYTELD.—J. Trelease, Oct. 24: The sinking of the Whitwell engineshalt has been carried on continuously during the week. We have lowed the pumps about 8 ft. since Monday morning. We have sunk about 2 fum in the upper slate sill. During the week we have cut several ore-bearing string, the last one cut being 9 in. wide, composed of gaiena, ore, and lime-spar. The strings are all running towards the main vein, which is lying about 12 fm. the east of the shaft. Samples taken from the strings yeareday have been sent to the company's offices. We will have 14 tons ore ready for sale next vein KIT HILL GREAT ON SOLS.—I Richards, Oct. 30: In the Tunnel levelthe ground is rather more favourable for exploring, and 2 fms. 3 ft. have been drive the production of mineral. In the loop, both east and weat, the lode continue to present the same favourable indications as for some time past, and yield a little tim ore.

MID DEYON.—J. Neill, Oct. 25: A Shaft: The necessary repairs to the half.

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stated in a former report, of the lode (before underlying south) having takes north underlie; the ground, which is granife, is of a very congenial status for the production of mineral. In the 100, both east and west, the lode continue to present the same favourable indications as for some time past, and yields little tin ore.

MID DEVON.—J. Neill, Oct. 25: A Shaft: The necessary repairs to the shift to continue, the sinking has been effected down to the 30, and the bottom back in some attached to the shaft to the shaft to the shaft to the shaft by Monday next, and be ready for sinking on Wednesday.—C. Shaft: The 50 stope, in the back of the cross-cut north, worked by two men for four days, still contains a good deal of chlorite and friable garnet, with larger deposits of copper ore, especially so in going north, where there is every indication of a greater yield; at present it is equal to 1½ ton per cubic fathon.

MELLANEAR COPPER.—John Gilbert, Oct. 29: The ground in the 30 case-cut, south of Gundry's shaft, is mixed with small veins of lead and blends, and the men are making good progress in driving. We are still meeting with branches of mundic in the 70 cross-cut driving north of the main lode, and the ground is letting out a little more water. The lode in the 30, west of Gundry's shaft, is 1 ft. wide, and yielding cocasional stones of copper ore. The lode is the 100, west of shaft, is 2½ ft. wide, and yielding 1½ ton of copper ore fathom, and looking promising. This is further west than the ore made is either of the levels above. In the 110, west of shaft, the lode is 4 ft. wide, and yielding some good saving work for copper and tin. We have not ve made with the lode to the east of the cross-course, which is 1½ ft. wide, yielding a good deal of mundic, and some saving work for copper or per fathom, and some good stones of the non-conscourse, which is 1½ ft. wide, yielding a good deal of mundic, and some saving work for copper or per fathom, and some good stones of the cross-course, which is 1½ ft. wide, yie

like West Kitty did, which gave good profits very soon after having communication make returns.

NEW LANGFORD.—T. Gregory, Oct. 22: The lode in the 10, west of engine shaft, is still of the same promising character, and yields some good saving wis for blende and silver-lead. In the old cross-cut south, in this level, it appears portion of the lode has gone off somewhat parallel to the old workings. I have started a cross-cut from the 10 west to prove this at 32, per fathom; 4 or 5 fm. will ascertain what is there. The lode in the 20 west is from 4 to 5 ft. wid, will ascertain what is there. The lode in the 20 west is from 4 to 5 ft. wid, strong and masterly, and is producing well for blende and mundic; a good pic of staff has been drawn from here this week. We sold last week over to the rule of 70%, and shall soon have another parcel for sale.

NEW LANGFORD.—T. Gregory, Oct. 20: The new lode intersected in the 10 cross-cut south is over 2 ft. wide, composed of mundic, lead, and blende, liter mixed with prism and quarts, and is very promising. This i evidently the sast lode as the 30 is being driven on. There is no change to notice in the 10 on the old lode; ground favourable and good progress being made.

In the 30, west of the price of the price of the production of the 10 on the old lode; ground favourable and good progress being made.

old lode; ground favourable and good progress being made. In the 5% wer-engine-shaft, the lode is very wide, and produces full 4 tons of mixed ors of fathom, and is opening some paying ground. Machinery and pitwerk well

ing well.

NEW TERRAS.—R. Eade, 'Oct. 30: The sinking of the east shaft is progress at the department of the production of tin. The lode in the stopes at the deep at the engine-shaft. It is yielding about 70 tons of tinstone per lines lather of the lode.

Of the lode.

of the lode.

NEW TRUMPET CONSOLS.—R. Quentrall, Oct. 30: We are breaking goes fair quality tinstuff from the 40, east and west of Trenchick shaft. The lode is the winze, sinking below the 28 west, has been a little smaller, but it is againg getting larger, and is of very good quality for tin and copper. The stops are producing the usual quantity of copper, and we are getting another parel oppoper ore ready for sale.

producing the usual quantity of copper, and we are getting another peter copper over ready for sale.

**NEW WEST OARADON.--N. Richards, Oct. 29: No. 5 lode at the 38 cet! is 2 ft. wide, composed principally of quartz and flour-spar, producing rich stead of copper ore. We fully expect to get an improvement here shortly. This lode at this level west is 15 in. wide, producing some good copper ore. We also expecting an early improvement here. There is no change in the cross-city of the control of the

fathom.

NORTH GREEN HURTH.—James Polglase, Oct. 23: The vein in the south end—the north and south vein—has been displaced by the intersection, and probably heaved a little to the west. The vein in the rise on the new vein is of a

The 95 level noces indicate at for which present end evel Engine evel. lead and respectively.

respectively, rage, 1½ ton espectively, titles; rest t in bottom,

inze north, e 44, north on per fm. nze, below rial drift is 1 1 ton per adit level wered the ms. in the rings, the tr. These 12 fms. to have been ext week. I level the endriven

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senting nature, and having about 9 ft. more to rise to strike the limestone. We have to see a change for the better; the ground is much harder in the rise. The ossent is in hasel, and about the same in appearance.

SORTH FANT-Y-GO.—W. Wasley, Oct. 30: Last Saturday being the end of smach 1 ast Brown's shaft at 35s, per yard for as much as they can sink for the month, the men to find all tools, powder, fuse, candles, and smith work as here.

we lo see a change for the octive; the ground is much harder in the rise. The see the see change for the octive; the ground is much harder in the rise. The see that is a like the seed in the seed in

let can be distinctly seen, which shows that the point of junction is still alast. Tribute pitches producing their usual value and quantity of thin and epper ores.

PRINCE OF WALES.—S. Roberts, Oct. 22: The 102 cast is set to six men, at S. per fathom; lode 4 ft. wide, worth 12l. for tin. We regard the falling off in value as only temporary. It is again opening wider, improving in character and value, and the water is issuing very strongly from the forebreast. I have put the men to put a stope in the lode over the back of the level near the end, in order to heighten it previous to driving. The stope in the back of this level from the No. 2 rise cast to four men, at 3l. 19s. per fathom; lode 4 ft. wide, worth 4l, for tin, and occasional patches of copper ore. The 90 west to four men, at 4l. 19s. per fm. This drivage is on the course of the new Silver lode, which, though small at present, traces of the Prince of Wales lode can be distinctly seen in it. We purpose putting men to try to stope the bottom of the 90 cast during the week. Two tribute pitches in the back of the 102 west, two in the back of the 30 cast, by 12 men, at 13s. 4d. tribute; and one in the back of the 45 weat, by six men, at 11s., and two in the back of the 45 weat, by six men, at 11s., and two in the back of the 52 cast, by 12 men, at 13s. 4d. in 1l. We are preparing a parcel of copper for sampling on Oct. 31.

ROMAN GRAVELS.—Arthur Waters and Son, Oct. 30: We have to-day sold 100 tons lead ore for 730l. All the ends and stopes are yielding ore in quantities equal to the values given in late reports.

RUSSELL UNITED. — J. Bray, Oct. 30: Matthew's engine-shaft is down 20 ms. below the 97; we shall now call this level the 127. We have driven east from the shaft 1 m. 2 ft. on the north side of the lode, which will be taken down in the course of a few days, when you shall know the result. We shall commence the cross-cut north at this level toward the Great North lode the carly part of next week. At the plane's engine-shaft the ground continues to

the tunnel forebreast.

SOUTH CONDURROW.—W. Rich, W. Williams, H. King, Oct. 29: We have holed the winze below the 54, west of Marshall's shaft. This has given good wastiation, and we have resumed the driving of the level west. The 56 end wasteries good stones of copper, intermixed with tin. The 32 end west at so yields a little copper. The 70 end, east of King's, is worth '81, per fathom, and looks promising to improve. The 50 end east is worth 121, per fathom. There is no material alteration in the stopes and pitches throughout the mine, but the low price of ore is sadly against us.

MARKEN PROMOTE THE STATE OF THE Bode in Martin's shaft, sinking

material alteration in the stopes and pitches throughout the mine, one one of price of ore is sadly against us.

80UTH DEVON.—W. Hooper, Oct. 30: The lode in Martin's shaft, sinking below the 120, is without any particular change either in size or appearance since lat reported on, worth 20t, per fathom. In the 120, diving west of Martin's shaft, the lode maintains its size and value, worth 18t. per fathom; but from the appearance of the end to-day I think we are getting very near the principal cross-course. To the west of same in the level over this—the 113—we had a good paying lode for 30 fms. in length; and, in my opinion, it will prove equally as productive—in fact, the 120, from Martin's shaft, to the present end has proved to be of much greater value than the level over the 110. The lode in 30.1 stope, in back of this level, is worth 10t, per fathom. In No. 2 stope the lode it worth 14t, per fathom. Since we have had an increase of water the dressing machinery has been kept going to get all the ore possible for the next ampling.

dresing machinery has been kept going to get all the ore possible for the next sumpling.

SOUTH PENSTRUTHAL.—(Special Report): T. Hodge, Oct. 22: I have carefully examined this mine to-day, and beg to hand you the following as my report thereon:—I need not make any comment on the situation of the mine, as it is well known to you. I may say that the mine is well equipped with machinery, ample for all requirements to effectually prove the mine. Walton's shaft is sunk for a 126 fm. level, the vein is standing south of the shaft, and proved to be at the bottom 30 ft. wide: In the centre of the lode (15 ft.) a level has been driven west 7 fms. on the leader park, 6 ft. wide, composed of mundic, segar-spar, prian, and fluor-spar, in which at times some good stones of copper ore are found. The matrix of the lode is very promising for producing large leads of ore. On the south part of said vein a level has been driven eat on the leader part; it is of a cluder or honeycomb form, yielding some rich stones of ce. The capel on the south produces some rich stones of tin, but the rock, in large the same. I minutely examined the vein from the 30 fm level downward: the same. I minutely examined the vein from the 30 fm level downward: the same. I minutely examined the vein from the 30 fm level downward: the lode in the bottom shows a marked improvement to the upper levels. Patr-od shaft is sunk to the 170, distant from engine-shaft 60 fms. The 170 is driven about 25 fms. weet in a hard lode. I may here remark that in about 5 fms. further driving a small cross-course will be intersected; this will be at a point about 10 fms. cast of the engine-shaft. The said cross-course is ground in more like tin-bearing, but to the west of it it shows overy indication for the lode in the very indication is more like tin-bearing, but to the west of it it shows overy indication for the lode in the said cross-course to be ground is more like tin-bearing, but to the west of it it shows overy indication for the lode in the said cross-course, on th

west Orleador.—J. Andrews, Oct. 22: The lode in the 95 west is opening out larger, and is now fully 3 ft. wide, composed of quartz, capel, mundic, and little yellow copper ore, a very promising looking lode, and ground easy for driving. In the 80 west the lode is 2½ ft. wide, composed principally of capel and mundle.

WEST CREBOR.—J. Andrews, Oct. 22: The lode in the 95 west is still looking very encouraging, and is now 3½ ft. wide, composed of quartz, capel, mundic, and copper ore, but as yet not sufficient of the latter to value. In the 80 west the lode is unproductive.

WEST GODOLPHIN.—T. Hodge, Francis Hodge, Oct. 27: The following bargains were set on Friday last:—The 92 north west, to six men; the lode here is 2 ft. wide, producing a little in. The 92 south east, to six men; tode 2 ft. wide, producing a little in. The 92 south east, to six men; tode 2 ft. wide, producing occasional stones of tin. We are approaching the crossing here, and expect an improvement after driving through it.—Plink Lode: The 89 fm. level west, to four men; lode worth 101, per fathom. The 70 fm. level east, to two men; lode producing asving work for tin. The 80 fm. level west, to two men, the lode here is split, currying a branch on both sides, which is coming together as we advance, when they unite we expect an improvement. The 50 west, to two men; lode worth 81, per fathom we have out into a crossing in the forebreast, which may influence the lode until got through, but Bellingham's lode was very productive to the west of it, and being parallel here we expect the same result. A winze below the 50 to two men; lode worth 17, per fathom. A stope in the back of the 40 to two men; lode worth 62, per fathom. A stope in the back of the 40 to two men; lode worth 62, per fathom. A stope in the back of the 40 to two men; lode worth 62, per fathom. A stope in the back of the 40 to two men; lode worth 62, per fathom. A stope in the back of the 40 to two men; lode worth 62, per fathom. Men Lode is a surface. All our machinery is working well

rise is very light. The communication will be effected within the time stated. The rain has now fairly set in, and our reservoirs are gradually rising, and I help our water trouble is now at an end. The late drought has had no precedent help our water trouble is now at an end. The late drought has had no precedent with the property of the property

the end. We have a very fair lode in the rise, and is worth 8%, per fathom. We have no other change.

WHEAL UNY.—W. Hambly, Oct. 30: Setting Report: Hind's engine-shaft to sink below the 203 by 12 men, at 30%, per fathom. This shaft is down 8 ms. 2 ft. below the level; the part of the lode carried for the length of shaft, which is 14 ft. long, is worth 22%, per fathom. The 203 end to drive west of shaft by six men, at 3%, 5s. per fathom; the lode is the full size of the end, and worth 6%, per fathom. The stope in the back of this level is working by eight men, at 5s. per ton of stuff, and the lode for 6 ft. wide is worth 20%, per fathom. We have two stopes working west of old sump shaft, one in the bottom of the 193 by six men, at 7s. per ton of stuff, and worth 10%, per fathom for tin; the other in the back of this level on the copper part of the lode, which is worth for copper 10%, per fathom. There are 12 tribute pitches working throughout the mine at tributes from 5s. to 13s. 4d, in 1%. All the machinery on the mine is in good order and working well.

NORTH BUSY MINE.—Another parcel of 20 tons of copper ore, for sale in next Redruth ticketing, has been sampled from the recent discovery. The lode makes rich ore, and it can be cheaply worked. The lodes are being drained by the deep county adit, thus saving all expensive pumping charges. This is a very important item in these depressed times.

MINING EXPERT (Experienced) WANTED, to go out to Mexico to REPORT on Copper Mines. Must have a practical knowledge of copper ores, both in working and smelting. Address, "No. 90," KEITH and Co., 65, George-street, Edinburgh.

MANAGER OF GOLD MINE.

WANTED, a Gentleman to MANAGE GOLD MINES in the TRANSVAAL. Must thoroughly understand Quartz and Alluvial Gold Mining, and the Treatment of Ores containing Gold. Address, stating particulars and amount of salary required, to "X. Y.," care of Davies and Co., Advertising Agents, Finch-lane, Cornhill, E.C.

HOME MINES TRUST, LIMITED.

INCORPORATED UNDER THE COMPANIES ACTS, 1802 TO 1880.

DIRECTORS' REPORT

To be presented to the Shareholders at the General Meeting, to be held at the Cannon-street Hotel, London, E.C., on Monday, the 3rd November, 1884, at Two P.M.

TO THE SHAREHOLDERS,

In laying before you the result of the operations of the "Trust" since the date of the last General Meeting, the Directors have much pleasure in calling your attention to the continued prosperity and stability of the undertaking.

On reference to the accounts, it will be seen that since the date of the last Balance-Sheet, the gross profits, exclusive of £139 18s. 4d., brought forward from last account, amount to £25,132 17s. 1d., apportioned in the following manner, namely:—£779 9s. 10d., General Working Expenses; £16,776 0s. 9d., Interim Dividends, less £2500 Dividend declared at the last General Meeting; £7500 to Reserve Fund; leaving £2717 4s. 10d. available for present distribution, which the Board propose to deal with as follows:—To pay the Quarterly Dividend at the rate of 10 per cent. per annum, which amounts to £2500, and to carry forward the balance of £217 4s. 10d.

It will also be observed that in addition to the Interim Dividends already paid, and the amount now proposed to be distributed, the sum of £7500 has been added to the Reserve Fund, which contrasts very favourably with the amount of £500 placed to that Fund in the last Balance-Sheet, and that the Stocks and Shares held are valued in the Balance-Sheet at the cost price—namely, £94,590 18s. 3d., but if taken at their present market value they would represent at least 20 per cent. more than the entire paid-up Capital of the "Trust;" moreover, there is the sum of £798 16s. advanced on Securities.

The field of the "Trusts" operations is very large, and, judging from past experience, its future should be one of continued

perity.

In compliance with the terms of the constitution of the "Trust," one of the Directors retires, but being eligible offers himself for GEORGE FORMAN, Chairman.

Du.	BALANCE-SHEET AT 30TH SEPTEMBER, 1884.	Cr.
Co Capital Account — Authorised Capital 250,000 Bhares of £1 each	By Shares held in Sundry Cornish Mines, taken at C Reserve Fund Investment Account, being Int Debentures, Stocks, &c. Sundry Debtors (Secured) Cash at London and South-Western Bank	vestments in 5,000 0 798 16
	£110,727 0 8	£110,727 0
Dr. Revenue	CCOUNT FROM 1ST MARCH, 1883, TO 30TH SEPTEMBER, 1884.	Си.
to Stocks and Shares on hand 28th February, 1883, at Cost price, as per last Balance-Sheet Purchase of Stocks and Shares since the above date, at Cost price	#25,000 3 6 By Sales of Stocks and Shares , Stocks and Shares in hand, 30th September, 1834, as per Balance-Sheet	, at cost price
,, Gross Profit carried to Net Revenue Account	£230,354 13 7	£230,354 13
DB. NET REVENUE	CCOUNT FROM 1ST MARCH, 1883, TO 30TH SEPTEMBER, 1884.	CR.
o Interim Dividend to 31st March, 1883	22,500 0 0 By Gross Profits brought down	vances 8,842 6 1,903 19 1,334 10 76 11
Less Income Tax 'o Reserve Fund "Director's Fees. "Secretary's Salary, Bank and Law Charges, Office Rent and Expenses, and Audit Fee "Balance carried to Balance-Sheet.	17,000 0 0 223 19 3 216,776 0 9 7,500 0 0 475 0 0 304 9 10 2,717 4 10	2,639 18
19 Australia Company	£27,772 15 5	£27,772 15

We find the above Accounts to be a correct Abstract of the Company's Books, the items in which are duly vouched. We have also examined the Securities held by the "Trust;" these are taken in the Balance-Sheet at cost price. From Brokers' Certificates exhibited to us, it appears that the value of the Shares held, at current market prices, is above the cost as set forth in the Accounts.

London: 28, Budge Row, Cannon Street, Oct. 30th, 1884.

WOODLEY SMITH & CO., Chartered Accountants

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THE METAL TRADE.

FOR COPPER, TIN LEAD, &c., apply to-MESSES. PELLY, BOYLE, AND CO., SWORN METAL BROKERS,

ALLHALLOWS CHAMBERS, LOMBARD STREET, LONDON. (ESTABLISHED 1849.)

HENRY NUTT, BIRMINGHAM,

PURCHASER O LEAD ASHES, LEAD SLAGS, SULPHATE OF LEAD, TIN ASHES, TERNE ASHES, AND ALL REFUSE CON-TAINING TIN AND LEAD.

COPPER AND SPELTER COMPANIES DESIRING TO

INCREASE their SALES and CONNECTION with Leading Houses, should send description, prices, and best Agents' terms to

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NICKEL AND COBALT REFINERS, BIRMINGHAM.

The Mining Market: Brices of Metals, Ores, &c.

METAL MARKET-LONDON, OCT. 31, 1884.

META	L MARKET-LONDON, OCT. 31, 1004.
Pig, GMB, f.o.b., Clyde 2 2 8-2 2 9	TIN. & s. d. & s. d.
Pig. GMB, f.o.b., Clyde 2 28-2 29	English, ingot, f.o.b 77 1) 0-78 0 0
. Scotch, all No. 1 2 3 5	DATS /0 10 0- /5 U U
Bars Welsh, f.o.b. Wales 4 17 6	, refined 79 10 0- 80 0 0
in London . 5 7 8	Australian 74 0 0
. Stafford., 6 76	Banca nom
in Tyne or Tees 5 0 0-	Straits 74 0 0
Swedish, London 8 15 0- 9 15 0	COPPER.
Rulls, Welsh, at works 4 17 6-	Tough cake and ingot. 56 0 0 - 58 0 0
Sheets, Staff., in London 7 5 J- 7 10 0	Best selected 58 0 0- 59 0 0
Plates, ship, in London . 7 10 0-8 0 0	Sheets and sheathing. 62 0 0- 65 0 0
Hoops, Staff., 6 7 6	Flat Bottoms 65 0 0- 68 0 0
Nail rods, Staff., in Lon. 6 5 0	Wallaroo nom.
STEEL.	Burra, or P.C.C 60 0 0
English spring 12 0 0-18 0 0	Other brands nom. 58 10 0- 60 0 0
cast30 0 0-45 0 0	Chill bars, g.o.b 52 12 6- 52 15 0
Swedish, keg13 0 0-14 0 0	QUICESILVER.
, fag. ham13 10 0-14 10 0	Flasks, 75 lbs., war 5 12 0
Rails at works 4 12 6- 5 0 0	Риовриов Вионди.
,, Light, at works 5 12 6-6 12 6	Alloys I. and II £107 0 0
LEAD.	V 115 0 0
Eng ish pig, common10 17 6-11 0 0	VI. and VII 127 0 0
	XI 105 0 0
w.B11 2 6-11 5 0	, Duro A, Duro B 100 0 0
sheet and par 12 6-11 15 0	BRASS.
., pipe	Wire 63/d
red	Tubes 8½
patent shot14 0 0-	Sheets 614-714d,
10 11 3	Yel, met, sheath, & sheets 5%-5%
S, anish	Tin-Plates.* per box
Metal percet	Charcoal, 1st quality 1 10-1 20
Ore 10 percent, per ton	, 2nd quality 0 18 0- 1 0 0
SPELTER.	Coke, 1st quality 0 16 0- 0 16 6
ilesian ordinary brands14 10 0	2nd quality 0 15 0- 0 16 0
., special brands, 14 15 0	Black perton 15 10 0-
English Swanses15 5 0	Canada, Staff. or Gla. 12 0 0-
Sheet zinc 17 10 0-17 15 0	at Liverpool
	less for ordinary; 10s. per ton less for

Canada; IX 6s. per box more than IC quoted above, and add 6s, for each X.

True-plates 2s, per box below tin-plates of similar brands.

REMARKS.—A sensitive tone still pervades our market, and whilst prices for some metals are fluctuating others remain steady. There are undoubtedly many adverse features in the market at the present time, and they are of sufficient importance perhaps to prevent any thorough substantial and prolonged improvement. At the same time the depression is undoubtedly intensified by the numerous unfavourable reports. They tend to unsettle the feeling, to weaken the tone, and disturb the market. It is but natural that the pessimists, those who have been bearing the markets for months past, and have vast interest in the keeping down of prices, should be ready to encourage the free expressions of gloomy views, and they are greatly assisted by the veracity of their opinions having been only too prominent pronounced by the great so-called stagnation which has characterised business for several months past. But the question for solution is—Whether the trade is readly the case. To illustrate our point let us take, as examples, what are recognised as the three leading metals—iron, copper, and tin, and compare their position now with what they were a year ago. This will give us a me indication of the volumes of business executed during the past 1: months. In any one particular month or week business may have been quieter than what is was last year, arising from special causes, and, therefore, no particular importance need be attached to its. But looking at these three trades now, and comparing them with what they were at the same time of last year, the result of the investigation is very striking.

In iron the public stock at Glasgow is now nearly 10,000 tons less than what it was this time last year, and the price 20st. Cheaper. In copper the stock is about 3000 tons less, and the price 20st. Cheaper. In the stock is about 2000 tons less, and the price 20st. Cheaper. In the stock is about 2000 tons less, and the price 20st. Cheaper. In the stock is about 2000 tons less, REMARKS .- A sensitive tone still pervades our market, and whilst

duced rates have been accepted for Chili bars. The downward tendency of prices is causing a little uneasiness amongst holders, and many of them are apt to take a very gloomy view of the present state of the market, and, therefore, have not been unwilling to make concessions in price, in order to rid themselves of their stocks. Transactions concessions in price, in order to rid themselves of their stocks. Transactions upon each day have been carried through at somewhat under the official quotations, and, whilst this feeling of uneasiness pervades the whole market, it is not likely that any improve ment of a marked character will take place. We must wait for the tone to change before the numerous favourable features will be allowed to exercise their customary influence; and, in the meantime, one of the most favourable opportunities is given to those who will shortly be requiring copper to purchase upon the most favourable terms that have ever been known in the history of the copper trade. The good deliveries indicate that many consumers have already availed themselves of these remarkably cheap price; and, if prices are kept down much longer at their present very low and unremunerative figures, the consumption of copper must of necessity increase to an enormous exacent.

tive figures, the consumption of copper must of necessity increase to an enormous extent.

It is true that present supplies are heavy, but they are not adequate to the constantly growing demand. The result is that if general business and outward events keeps prices down at their present rates the comparatively light stocks must soon be consumed or greatly diminished, a fact which would have the result of pushing up prices to perhaps a rather high figure. However, there may be no immediate advance, because operators are nervous, and some holders are not backward in pressing sales, but it seems impossible for prices to keep down much longer at present quotations, and there is every reason to expect that the deliveries will continue to be sustained. Onlil bars have this week touched a lower figure than has ever been known before, a feature which would be striking at any time, but still more so now in face of the considerably reduced stocks.

IRON.—This market continues extremely quiet, and the demand appears to become more and more contracted. Short time is now very prevalent at most of the works throughout the whole country. There is no branch of the trade brisk, and scarcity of orders for

all descriptions is a common feature throughout the whole trade, Low and unremunerative prices fail entirely to stimulate the demand, and the tone is very gloomy and depressed. There is a marked absence of work amongst the employed, and the amount of distress that is threatened during the coming the employed, and the amount of distress that is threatened during the coming the employed, and the amount of distress that is threatened during the coming the employed of the control of th

figure which was evidently higher than was generally anticipated, prices here recovering about 7s 6d. per ton, but after which again becoming easier, and stronger again to-day.

The unsettled state of the market has been the cause of the low prices; but it is to the low prices that we must look to for an improvement. They ought to attract the attention of operators, and encourage the speculative demand, but this, of course, is a feature of secondary importance to the trade at large, though of primary interest to holders. What is of more consequence is the extra business likely to arise from the cheap rates. Hitherto at much higher figures deliveries have been very large, therefore with the present declension in prices a proportionately increase in the demand may be looked for, while at the same time the lower rates are likely to produce some wholesome check upon supplies, and in consequence reduced stocks are not improbable.

SPELTER.—There is nothing new to report, and we still quote ordinaries at 14t. 10s., and special brands at 14t. 15s. per ton.

LEAD is flat, with sellers of Spanish at 10t. 11s. 3d. and of English pigs 10t. 17s. 6d. to 11t. per ton.

STEEL.—The demand is decidedly better, particularly for rails; but prices are without quotable change.

but prices are without quotable change.

TIN-PLATES.—Business is quiet, and prices remain as last quoted.

QUICKSILVER.—Nothing fresh to report.

The settlement of the usual fortnightly account has occupied the chief attention of the dealers in the MINING SHARE MARKET this week. For general business the market has been flat for all kinds of stock, and the quotations given are for the most part merely nominal. Among tin shares Wheal Agars have advanced to 17, and business has been done in Dolcoath, Tincroft, West Frances, Prince of Wales, West Kitty, East Blue Hills, East Pool, and a few others. TIN.—The standard, which was suddenly advanced on the 20th to 31. per ton, was put down again 22. before the week was out, and tin shares have been only moderately dealt in, and generally at lesser rates. Carn Brea, 3½ to 4; at the meeting, when a call, as announced last week, was made of 12s, 6d, per 6000 shares, or 37501. the accounts showed an actual debt of 13,0611. 6s. 9d., that is 31931. 17s. 2d. to merchants, 38711. 5s. bills payable and due to bankers, 12,1451. 12s. 2d

to merchants, 38711. 5s. bills payable and due to bankers, 12,1451. 12s. 2d. the credit against these items, bringing the debit balance down to the amount stated. The accounts were brought down to Sept. 27. The tin sold in four months, 133 tons, realised 56641. 5s., and resulted in a loss of 37801., or nearly 10001, a month. The chief feature in the report, and which caused the rise in shares, was the cutting of Teague's lode in the 216 cross-cut of new shaft. The lode so far as then each held a kindly appearance, and produced expresslendid stones of timeses held a kindly appearance and produced expresslendid stones of timeses held a kindly appearance. seen had a kindly appearance, and produced some splendid stones of tin, and should it continue to improve, as the agents state, they have every reason to expect, it will be one of the best discoveries made in Carn and should it continue to improve, as the agents state, they have every reason to expect, it will be one of the best discoveries made in Carn Brea for a number of years. Cook's Kitchen, 9 to 10; Dolcoath, 65 to 67; East Pool, 38 to 39; Killifreth, ½ to ½; South Condurrow, 7½ to 8½; South Frances, 6 to 6½; Tincroft, 6½ to 7; West Basset, 1½ to 1½; West Frances, 5 to 5½; West Kitty, 8½ to 9; Wheal Agar, 17 to 17½; Wheal Basset, 1½ to 2; Wheal Grenville, 6½ to 6; Wheal Uny, ½ to ½; East Blue Hills, 3-16ths to 5-16ths. Wheal Kitty (St. Agnes), ½ to ½; East Blue Hills, 3-16ths to 5-16ths. Wheal Kitty (St. Agnes), ½ to ½; at the meeting here to audit accounts extending over a period of 12 months a loss was shown of 4804., and but for the price of tin would have made a good profit. The sales consisted of 164 tons, and they realised 7887. The debit balance was 19624., but no call was made. Mounts Bay, ½ to 3-16ths; Now Kitty, 1½ to 1½; Pedn-an-drea, 1½ to 1½; South Crofty, 1½ to 2½; South Kitty, ½ to ½; Trevaunance, 1½ to 2; Tresavean, ½ to 7-16ths; Poiberro, 2 to 2½; West Polbreen, ½ to ½.

COPPER has been rather weaker, and very little business transacted in shares, which are, generally speaking, very quiet, and quotations nominal. Bedford United, 1½ to 1½; Devon Great Consols have declined to 1½ to 2½; Gunnislake (Clitters), ½ to ½; Marke Valley, ½ to ½; New West Caradon, ½ to 3-16ths. Prince of Wales, ½ to ½; the lode in the 102 east is worth 127. per fathom, but looking well for improvement. South Caradon, ½ to ½; West Caradon, 1-16th to ½; West Crebor, 1-16th to ½; Wheal Crebor, 1 to 1½; the points in operation are valued in the aggregate at 41 tons of copper ore and 14 tons mundic per fathom.

New Caradon, 2s. to 3s. o. p.; at the meeting accounts as presented showed a balance of assets over liabilities of 1037. 16s. 7d., and a call of 1s. per share was made. The report states that the lode cut in the 50 fm. level is now 3½ to 4½ ft. wide, saving work for copper, and

of 1s. per share was made. The report states that the lode out in the 50 fm. level is now 3½ to 4½ ft. wide, saving work for copper, and the agent is now satisfied in recommending the shaft to be sunk at once, as the lode presents indications that can hardly fail to prove very productive for copper ore. Worked by water power, with pit-work all in good order, "it would be difficult to find another mine

of such promise that could be more cheaply proved." Devon Friendship, ½ to 3-16ths; New Cook's Kitchen, ¾ to 1.

LEAD is not quite so firm, and there is nothing doing in shares. Vans are quoted \(\frac{1}{2}\) to \(\frac{1}{3}\); operations commence on Monday. Great Laxey, \(\frac{1}{3}\)\(\frac{1}{2}\) to \(\frac{1}{2}\)\(\frac{1}{3}\); Roman Gravels, \(\frac{3}{4}\)\(\frac{1}{2}\)\(\frac{1}{2}\); Leadhills, \(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)
East Wheal Rose, 5-16ths to \(\frac{1}{3}\); New Langford, \(\frac{1}{3}\)\(\frac{1}{2}\)\(\frac{1}{

no change to report; 25 tons lead ore will be sampled this week in sale on Nov. 7. Standard, 1½ to 1½; Weardale, 1½ to 1½.

Foreign Mine shares seem to have participated this week in the general depression, and quotations are, with few exceptions, nominal Alamillos, 1½ to 1½; Almada and Tirito, 1-16th to 3-16ths; Almadian, 1½ to 2; Balkis, 1-16th to ½; Birdseye, ½ to ½; Bratsburn, 1½; California, ½ to ½; the telegram dated Thursday says:—Milling 45; Coloria, ½ to ½; the telegram dated Thursday says:—Milling 45; Coloria, ½ to ½; Colombian Hydraulic, ½ to ½ Copape, 40 to 41; Chile, 1-16th to 3-16ths; Chontales, 1-16th is 3-16ths; Colorado United, 1½ to 2½; Colombian Hydraulic, ½ to ½; Colorado United, 1½ to 2½; Colombian Hydraulic, ½ to ½; Coriano, 2½ to 3½; Eberhardt, 3-16ths to 5-16ths; Fortuna, 2½ to 3½; Frontino and Bolivia, ½ to ½; during August 2396 tons from general mines produced (= 17 dwts. per ton) 2020 ozs., and the gold bough was 120 ozs. = 2140 ozs., worth, including exchange, 6076, 16s., and cost at the mines at Medellin and in London was 5473. 12s. monthly allowance for freight, commission on gold sale, cost at the mines at Medellin and in London was 5473. 12s. and sundry fluctuating outlays not immediately ascertiants (estimated at) 2504.; paid for gold bought of tributes, 2304. 15s. 5d. = 25944. 7s. 5d., leaving estimated profit 1226. 8s. 7d. Mr. Donagan's health had improved, and he has been able to gis constant attention, in conjunction with Mr. Clemes, to the position of the mines. He expect to effect considerably economy in the ox of production. The directors have not yet received any report direct from Mr. Clemes, as to the state of the mines, and they can therefore, only say that the information that has reached them more especially as to the amount of the reserves in the Salada Minis is not of so encouraging a character as they had been led to expect Mr. Donagan believes that he and Mr. Clemes will have conclude their inspection during October, and will he able to return to Eagland by the

tory. Instructions have been sent to Captain Bryant to proceed by America to inspect and report on the system of smelting by water-jacket furnaces. Should this process prove a success at Blimma, it is estimated a saving will be made of at least 3000t, a year alone in success to the state of the state of the state of the success at Blimma, it is estimated a saving will be made of at least 3000t, a year alone in

is estimated a saving will be made of at least 3000% a year alone a railway charges, besides enabling the low percentage ores to be utilised, of which there are many thousands of tons.

Spitzkop, 9-16ths to 11-16ths; the directors have received information from their manager at Spitzkop (Mr. J. A. Stone) to the effect that he has made good progress in the several shafts which he is now sinking, and that the four shafts on Silo hill show most encoraging prospects. He reports that he has found fine flour-gold in early all parts of the ground, and that the shaft first commenced shows the rotten reef splendidly, and prospects equal to anything he has seen. He states that the ground on Silo hill is very extensive, and exceedingly rich, and that it cannot fail to produce most satisfactory results. St. John del Rey, 65 to*75; Tharsis, 5\(\) to \(\) to \(\) Tolima, A, 6\(\) to 6\(\) . United Mexican, 3\(\) to 4; the usual telegram says: The excess of returns over outlay on the Mine of San Caystas de la Ovejera for the week ending Oct. 25 is \$6300. Excess of outly for the Mine of El Diamante \$500. Victoria, \(\) to \(\) West Callas, 3-16ths to 5-16ths.

The MARKET FOR MINE SHARES on the Stock Exchange has been dull throughout the week, and with few exceptions prices have been lower. Copper, tin, and lead all show further decline, although to lower. Copper, tin, and lead all show further decline, although is a small extent only, and the raising of the minimum Bank Essa from 3 per cent. to 4 per cent. yesterday is not likely to produce a favourable effect on prices, although it is frequently observable that new companies, of which several are said to have their pespectuses ready for issue, more easily obtain their capital when a moderate minimum rate rules than when it is very low. To-morow (Saturday) being a holiday on the Exchange, there was little disposition to commence new business to-day; but at the closs the feeling generally prevailing with regard to the future prospects of the metal trades and of the share markets was decidedly more favourable.

able.

Our usual telegram from Cornwall this evening says:—Duringths past week the Cornish Share Market has been quiet, with a fairly firm tone considering the depressed state of the tin market. Dealing have been principally confined to Dolcoaths, East Pool, Wheal Agr. Tincroft, Pedn-an-drea, Carn Brea, and West Frances; and most of these mines seem in improving circumstances and increasing in favour. At Tincroft account a 5s. call was made to meet a loss of 14701. The purser referred most hopefully to the prospects of the mine, which had not looked more encouraging for years. Alleding to Carn Brea, he said that the lode had been cut through, and four to be about 7 ft. wide. If it only continued they weuld have better days for Carn Brea. The sampling showed the lode to areas I cwt. to the ton of stuff. At East Pool account, on Monday nat, a dividend of about 17s. 6d. is expected. Some amount of attentian is being given to Pedn-an-drea shares, owing to improved prospets. The annual meeting of the Royal Cornwall Geological Society on Tuesday next will be presided over by Mr. Warrington Smyth, F.B.3. The system of selling mine shares for forward delivery has log been regarded as prejudicial to the best interests of mining, becase the public generally suffer by the operation; but as the public well understand that they are merely entering noon a common gambling enderstand that they are merely entering noon a common gambling enderstand that they are merely entering noon a common gambling

Tuesday next will be presided over by Mr. Warrington Smyth, F.B.
The system of selling mine shares for forward delivery has log been regarded as prejudicial to the best interests of mining, becase the public generally suffer by the operation; but as the public will understand that they are merely entering upon a common gambling transaction, with which the position or prospects of the concern which the shares represent has nothing to do, it is difficult to understand how the mine itself can be affected. The losing gamble deserves no sympathy. The process is extremely simple. There is a market for a given share at 1l., and bona fide purchases and also can be readily effected at that price; therefore, two classes of calers who do not necessarily hold a share between them forthwith proceed to exploit the public on that hasis. The one offers to sell for delivery three months hence at ½, and the result to the outside speculator depends not upon any change in the prospect of the concern during the interval, but on the relative strength of the dealers of the two classes. If the former can hold of the longer he will, by frightening bona fide holders, weaken the market, and thus be able to buy at § or less the shares which he has to deliver at §: he pockets his §, and his client pays § for a share side able when delivered at § only, justifying Franklin's motto Ata cheap penny's worth pause awhile. The outsider who sells for a result is in an even less favourable condition, since, in the event of a large rise taking place, he will assuredly have to deliver or pay the difference, whilst in case of a fall he will not unfrequently find it ence, whilst in case of a fall he will not unfrequently find it of the professional dealers with whom they transact business.

The Weaver Hall Brine and Salt Company, with a capital of 100,000L, in 20,000 shares of 5L each, has been formed to purchase for some of the richest brine runs in the Winsford district. Is addition to that, it is believed to contain extensive bods of rock-salt, whic

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Solution to the most improved principles. The cost, it is anticipated, for works the cost of sinking of a shaft. It is hoped that from the concessions the cost of sinking of a shaft. It is hoped that from the concessions the cost of sinking of a shaft. It is hoped that from the concessions with the company a profit of 60001, would be realised. The demand for sinking the company a profit of 60001, would be realised. The demand for great Consols, 2½ to 2½; the eastern shaft in the Wheal part of the mine has been sunk on the course of a lode from the first of the mine has been sunk on the course of a lode from the first of the mine has been sunk on the course of a lode from the first of the same period and copper ore, and there is every probability of shortly meeting with a rich course of mineral in further sinking.

Devon Great United, to ½; the ordinary general meeting of shareholders and extraordinary meeting were held on Wednesday, the was stated that the last two months' sale of copper ore realised the two cost sheets for the same period amounted to 477.8s. 4d., and the loss shown was only about 34L per month, probably, as was stated, about the lowest during the last 100 years. A practical and cordial discussion took place as to the best means of highing the comparatively small amount of capital required for sinking the shaft deeper and driving the levels, so as to get under the rich course of copper ore reported as being worth 3 to 4 tons per fm. in the bottom level. A unanimous vote of thanks was passed to the Chairman, directors, and officers of the company, and it is believed from the tone of the meeting, and the feeling expressed by some of the large shareholders absent, that the necessary capital will be forthcoming. A further meeting is to be held, when proposals will be submitted for further consideration.

Drakewalls, to ½; it appears that by the agent's report that the bottom, or 102 fm. level, has been cleared, and yesterday the sinking of the engine-shat below this level on the lod

and quality.

Kit Hill, \(\frac{1}{2} \) to \(\frac{1}{2} \); in the Tunnel level the ground has been rather more favourable for exploring, having driven 15 \(ft \). during the past

seek.
South Devon United, \$\frac{1}{2}\$ to \$\frac{3}{4}\$; the ordinary meeting of shareholders was held on Thursday, and afterwards the extraordinary meeting. From the report of the directors it would appear that the loss per month is only about \$80', and but for the personal feelings indulged in by one or two shareholders out of about \$5 present, the meeting would have been of a more harmonious and practical character. As it was, however, only one shareholder, and that the proposer, voted for his amendment as against passing the report and accounts and re-electing assumed a mere practical tone as to the best mode of raising the small amount of capital necessary for the development of the property, and another meeting will be held to decide the best means of carrying out the suggestions which have been made for this purpose. perty, and another meeting will be held to decide the best means of carrying out the suggestions which have been made for this purpose. The agent reports that the lode in Martin's shaft is worth 20l. per fathom, and the 120 end west is worth 16l. per fathom. The lode in No. 1 stope is worth 10l., and the lode in No. 2 stope is worth 14l. per fathom.

At Pedn-an-drea United Mines a great improvement is reported at the 100 fathom level east; the lode in the western end still holds good, having been driven 22 fathoms on its continuous course, with every prospect of permanency; the 120 fathom level will shortly commence driving east and west, which will open out a valuable section of ore ground.

Raby and Dunderberg, § to §; the weekly report advises two discoveries of ore at the Lord Byron Mine, one of which—that at the bottom of No. 1 cave—is considered a very good prospect, as it is

coveries of ore at the Lord Byron Mine, one of which—that at the bottom of No. I cave—is considered a very good prospect, as it is increasing rapidly in size as it goes down.

Tresaveans, 5-16ths to \$\frac{3}{2}\$; an advance of 1-16th, with very few shares on offer. There are many statements about on the market as to a considerable extension of operations at the mine and more rapid development now that the lode is opening up so well. One of the leading operators in these shares "confidently asserts that instructions have already been sent to extend operations with all speed, so as to be prepared for the advance in the price of metals. That this property is but coming to the front as one of the greatest tin-producing mines is evidenced by the official reports which are published from time to time, and with full equipment and every labour-saving appliance already erected on the mine the shares are open for a good advance in price."

from time to time, and with full equipment and every labour-saving appliance already erected on the mine the shares are open for a good advance in price."

In LEAD MINE SHARES there has been virtually nothing doing, and the further decline of 2s. 6d. per ton in the price of lead is not calculated to make matters more encouraging. Roman Gravels are quoted 3½ to 3½; the sale of lead ore this week is over 730L, and it is satisfactory to observe an advance of over 2s. per ton on last sales. The levels driving south continue to open out well.

Leadhills, 1½ to 1½; the 10 below Gripps, driving south, has been commenced in a rich lode of lead ore worth 3 tons per fathom.

The North Queensland Gold Mining Company have obtained 492 ozs. 13 dwts. of gold from 240 tons of stone. The St. Patrick tribute got 212 ozs. 8 dwts. of smelted gold from 116 tons of stone. Great Zaruma Gold Mining Company announce, with regard to the issue of 25,000L 8 per cent. debentures, that the list of applications for them will close on Saturday next, Nov. 8.

The Quicksilver-Wave Amalgamator Company have removed their offices to 15, Coleman-street, E.C. (ground floor).

In Mr. A. Hay Anderson's letter on Indian Gold Mines, in last week's Journal, geographical was erroneously printed in the fifth line for geological.

The International Financial Society notify that they are prepared to pay, at the exchange of the day, the interest due November 1 on the bonds of the Imperial Royal Privileged Lemberg—Czernowitz—Jassy Railway Company (in anticipation of the conversion of the said bonds).

It is announced that the Council of Administration will be pre-

It is announced that the Council of Administration will be pre-pared to pay in London, on and after November 1, the coupon No. 35 of the Six per Cent. Debentures of the Ottoman Railway, from Smyrna to Aidin.

The Railway Debenture Trust Company announce the numbers of 83 bonds of the issue of 1,000,000l. Five per Cent. Debentures that were drawn on Oct. 28 for payment in London, with interest, on Feb. 1 next, when the next interest coupon falls due.

MINING AS AN INVESTMENT. HOME MINES TRUST.

The unprecedentedly low price of metals has been availed of by as as affording a reason for agitating for reduced royalties, for the imposition of import duties on lead, copper, and tin, and for various other thicare. the imposition of import duties on lead, copper, and tin, and for various other things, which, although, perhaps, likely to be temporarily beneficial to a few dozen persons, are by no means a necessity to mining prosperity; but the declaration of dividends at recent meetings by several lead mines possessing no extraordinary facilities for earning profits proves that when investments are judiciously made dividends can still be paid, and the gratifying regularity with which the Home Mines Trust has issued its quarterly dividend warrant leaves no doubt that when risks are divided with judgment the distribution of profits becomes, with sound and honest management. an leaves no doubt that when risks are divided with judgment the distribution of profits becomes, with sound and honest management, an absolute certainty. Ten per cent. seems now to be the permanent dividend of the Home Mines Trust, and it would probably be well that the executive should restrict themselves to this percentage of dividend, and distribute any excess that may be earned in the shape of bonus. Capitalists prefer a regular 10 per cent. to intermittent dividends of larger amount, and they are always willing to receive in addition a bonus, whether it be of small or large amount.

The Home Mines Trust accounts prepared for presentation at the forthcoming meeting, and which have been certified by a well-known firm of chartered accountants, show that there was a turnover of nearly 200,000%, and a profit of over 25,000% (the capital of the Trust being 100,000%), yet the total working expenses were under 780%, so interim

being 100,000L), yet the total working expenses were under 780L, so that, although the shareholders have received 16,776L as interim

dividends, and 7500% has been appropriated to reserve fund, there is still 2717%. 4s. 10d. available for present distribution—an amount which many would have been well satisfied with for total gross profit out of this the usual quarterly dividend of 10 per cent. per annum will be paid, and the balance of 217%. 4s. 10d. will be carried forward. The relation of the working expenses to the profits is a very striking feature in the accounts—they amount to only 3 per cent., and it need scarcely be pointed out that if all public enterprises were carried on upon the principle of dividing the gross profits in the ratio of 97 per cent. to the shareholders, and 3 per cent. for working expenses, there is scarcely a mine in the kingdom that would fail to give handsome profits. The Home Mines Trust, to judge from the report and balance, since, in addition to a reserve fund of 7500%, there are available assets in the shape of stocks and shares in hand worth at cost 94,590%, but saleable to-day fully at 20 per cent. more, and a balance the bankers of considerably over 10,000%. The enterprise has, without question, been judiciously, successfully, and economically managed, and 97 per cent. of the profitable results of that management are the shareholders, or will be handed to them at the forthcoming meeting. The management reflects the highest credit upon all connected with it, and cannot fail to secure the confidence of capitalists and investors generally in any undertaking which the Trust may support.

NEDENÆS COPPER MINES.—Advices received this week state that the four stopes at Skytmur are worth 18 tons of copper ore. The rise above the 50 is worth 4 tons. The winze below the 30 is worth 4 tons. The follow the 30 is worth 1½ ton. The north lode is improving. There are 200 tons of the poorer ores ready for roasting, and 40 tons of the richer sort dressed. The mines are looking well, A full report is expected in a few days. is expected in a few days.

OSCAR GOLD MINE.—Under date Oct. 24 the managing director in Norway (Capt. Daw) writes—"We have a good mine in Oscar. The end driving north-east is very rich. It will take them all of this month (October) to get things in working order."

OWEN VEAN AND TREGUETHA DOWNS MINES.—The manager announces that a cross-out from the 67 fathom level cut the south lode last week. A telegram received yesterday at the offices of the company from the resident engineer is as follows:—"Happy to say, lode at sixty-seven broken fairly all over produces 81 lbs. of tin per ton. Have written.

ORGANOS GOLD.—The report just received and published in another column is deemed satisfactory so far as it goes, as the quartz from the Te Encontré lode, yielding over 7 dwts. of gold per ton, must prove, as the mines can be worked so cheaply, very profitable when worked in bulk. The Te Encontré lode, as mentioned in recent reports, is very large and wide, and under the circumstances will probably require but very little opening out to enable the company to make large returns from this quarter, and it is therefore hoped and believed that future returns will be made at a greatly increased rate. The stamps are capable of crushing from 400 to 500 tons of quartz per month, and crushing at this rate would yield a very handsome profit. The company has at present no machinery capable of treating the pyrites, but this is a matter which, should the Te Encontré prove as good as is expected, may be taken in hand at any moment. It will doubtless be unwise to consider such a subject as this at the present time, as the Te Encontré lode is the only part of the company's property in which the gold is found mixed with the pyrites to any great extent.

ORTA GOLD.—Rapid progress is being made towards completion ORGANOS GOLD .- The report just received and published in an-

ORITA GOLD.—Rapid progress is being made towards completion of the works, and that the commencement of a washing may, consequently, be expected at a early date. Mr. Welton has forwarded 18 photographs of the company's property, and of the works which have been carried out; they show the nature of the operations which are now being brought to completion, and give some idea both of the difficulties thick have bed to hove recovery and of the invector relation. now being brought to completion, and give some idea both of the dim-culties, which have had to be overcome, and of the immense value of the company's property. Shareholders who can do so are requested to call at the office, where these photographs may be seen. As re-gards the prospects of the mines, when once washing is commenced it is calculated that the profits will amount to close upon 4000*l*. per month. The capital is 20,000*l*.

GAS SHARES.—The principal business in these shares, according to this evening's report of Messrs. W. L. Webb and Co., of the Stock Exchange and Finch-lane, has been:—Bombay (Limited), 6%; Brentford (New Stock), 154½; British Gas Light (Limited), 43 to 43%; Buenes Ayres, New (Limited), 13 to 13½; ditto, 6 per cent. Debentures, 1898, 166½ to 168½; Commercial Consolidated, 255; Continental Union (Limited), Original, 38; ditto, 7 per cent. Preference, 31 to 31½; Gas Light and Coke, A. Ordinary, 220 to 224½; ditto, C. D., and E. 10 per cent. Pref., 238 to 238½; ditto 4 per cent. Debenture Stock, 110½; ditto 6 per Cent. Debenture Stock, 163; Hong Kong and China (Limited) 17½; Imperial Continental, 203½ to 208½; Monte Video (Limited), 17½; Oriental New, 1879, 11½; to 11½; To 125½; Monte Video (Limited), 17½; Oriental New, 1879, 11½; to 11½; To 125%; Monte Video (Limited), 22½ to 23½; South Metropolitan, A, 265 to 2395; ditto B, 221½ to 222; ditto Perpetual 5 per Cent. Debenture Stock, 127. Gas stocks fat on selling.

INSURANCE SHARES have, according to this evening's report of Messrs W. L. Webb and Co., of the Stock Exchange and Flinch-lane, been dealt in as follows:—Alliance British and Foreign, 37½ to 37%; Clerical, Medical, and General Life, 50; Commercial Union, 16 to 18½; Employers Liability Assurance Corporation, 1½ to 1½; Fire Insurance Association (Limited), 1½; London and Provincial Marine (Limited), 4 to 4½; Ramine (Limited), 1½; North British and Mercantile, 25½ to 26; Rock Life, 6½ to 7½; Royal Exchange 394 to 396, Insurances dull.

TRAMWAYS.—The closing prices of this evening, as quoted by Mr

394 to 396. Insurances dull.

TRAMWAYS.—The closing prices of this evening, as quoted by Mr
WM. Abnort, of Tokenhouse-yard, are given in tabular form in the last page of
the Journal.

FIETH COLLEGE, SHEFFIELD—SHEFFIELD TECHNICAL SCHOOL.

On Tuesday the Council appointed Mr. W. H. Greenwood, F.C.S., M.I.M.E., gold medallist Science and Art Department for Metallurgy and Physics, to be professor of metallurgy and mechanical engineering. Mr. Greenwood is the author of a well-known manual of metallurgy in two volumes, and has recently published Steel and Iron. His practical experience has been extremely large and varied. He served six years apprenticeship at the Gorton Works. He was four years chemist and assistant manager to Sir Joseph Whitworth, with entire responsibility for the conduct of the Bessemer, the Siemens, and the crucible steel processes from 1875 to 1880; engineer to the Abouchoff Steelworks at St. Petersburg, and for the last two years has been engineer and assistant general manager to the Landore Siemens Steel Company. The Council also appointed as assistant professor of mechanical engineering Mr. Wm, Ripper, science master, &c., Sheffield Higher Central Schools, A.I.M.E., &c., who among other honours has just been awarded a gold medal for good teaching by the I, H. E. Commissioners. A portion of Mr. Ripper's early career was spent as a workman in practical engineering, and many of his present students hold responsible positions in connection with local industries. Mr. Ripper has also had the advantage of studying the systems adopted in many of the most important schools and colleges in France, Belgium, and Germany, as well as in this country. systems adopted in many of the most important schools and colleges in France, Belgium, and Germany, as well as in this country.

in France, Belgium, and Germany, as well as in this country.

Marke Valley.—At the meeting at Salisbury, on Wednesday
(Mr. Bellingham in the chair), the accounts showed for the past three
months—Mine costs, 12651. 12s. 4d.; lords' dues, secretary's salary,
directors' fees, &c., 94l. 1s. The ore sold realised 562l 9s. 11d.
There was a balance of 136l. 7s. 6d. against the mine. A call of 1s.
per share was made. The agents' report stated that the exploratory
work was progressing favourably, and that all the machinery was
working well. They were now in good working order, and would
soon increase the output. soon increase the output.

MINING OFFICES, 1, ST. MICHAEL'S ALLEY, CORNHILL LONDON, E.C.

ESTABLISHED UPWARDS OF FORTY YEARS.

MESSRS. WATSON BROTHERS, in referring to their public Circular in the Mining Journal, would also observe that they BUY and SELL SHARES at the nett market prices of the day in all well-established and respectable Mining Companies; also, in English and Foreign Funds Railway Stocks, &c.

C. PASS AND SON, BRISTOL,

LEAD ASHES, SULPHATE OF LEAD, LEAD SLAGS, ANTIMONIAL LEAD, COPPER MATTE, TIN ASHES, &c., and DROSS or ORES containing COPPER, LEAD, AND ANTIMONY.

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Mr. EDGAR JACKSON,
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BUYERS AND SELLERS OF MINES, MINERALS, &c. COMPANIES FORMED ON EQUITABLE TERMS.

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CHEMICAL AND MINING ENGINEER, (Four years Chief Chemist and Metallurgist to the Rio Tinto Com

pany, 13 years experience in Cornwall, Author of numerous works on Mining and Mineralogy) ADVISES ON GENERAL CHEMICAL AND MINING MATTERS, AND SPECIALLY ON THE TREATMENT OF MIXED AND LOW-CLASS ORES.

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Pamphlet of information Gratis, and post free on application.

Twenty years' experience.

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GERMAN SILVER, SHEET and WIRE, suitable for HOME and all FOREIGN MARKETS. BARKER AND ALLEN, OOZELL STREET NORTH, BIRMINGHAM.

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Special information and business in all mines in the United States of Combia—Tolims, Western Andes, Colombian, and other gold and silver mines in

that country.

In direct communication each mail with the highest mining authority in Colombia, through whose private advices I am able to give most valuable information as to mines in the Tolima district, and other mines in the country. MR. W. MARLBOROUGH, STOCK AND SHARE DEALER,

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29, BIBHOPSGATE STREET, LONDON, E.C (Established 30 Years),
Can SELL the following SHARES:—
100 Akankoo, 5s. 3d.
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129 Great Holway.
120 Colombian Hyd., 10s3
120 Colombian Hyd., 10s3
120 Colombian Hyd., 10s3
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121 Almada, 3s. 9d.
122 Great Holway.
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Date. et. 30-Rome Walker, Parker, & Co. Adam Eyton and Son. ditto Walker, Parker, & Co.

BLENDE. Mines Purchasers.
Villiers Spelter Co.
Dillwyn and Co.
Pascoe Grenfell & Sons. 22—Frongoch 28—Cwmystwyth — ditto

write: Copper continues to be dealt in daily, but the demand is not enough to stay the gradually declining tendency of prices—the fall in value of Chilian g.o.b.'s since the 16th inst. is 15s. to 20s. per ton. Tin has within a fortnight experienced a sharp rally of about 5i, per ton, and again a decline of over 4i, per ton in prices of fine foreign, and the tone of the market to-day is rather fist. ad is without change. COPPER, TIN, AND LEAD.—Messrs. FRY, JAMES and Co., Oct. 30,

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DENT'S WATCHES

CLOCKS.

NEW ILLUSTRATED CATALOGUE of High-Class Watches and Clocks at Reduced Prices sent Post Free on application to E. DENT & CO., Mater's to the Queen, 61, Strand, London, W.C.; or 35, Royal Exchange, E.C.

GREAT ZARUMA GOLD MINING COMPANY

ISSUE OF £25,000 EIGHT PER CENT. DEBENTURES. NOTICE.—The LIST OF APPLICATIONS for these DEBEN-TURES will CLOSE on SATURDAY next, the 8th instant. By Order, J. C. HANDFIELD, Secretary. Office: St. Stephen's Chambers, Telegraph-street, E.C.,

1st November, 1884.

LE MOUVEMENT INDUSTRIEL BELGE

PEVUE TECHNIQUE, COMMERCIALE, ET FINANCIERE, sous la direction de Mr. l'Ingénieur P. DESGUIN. Paraîtra le 4 Juillet, 1854, et successivement les Vendredi de chaque semaine. Il contiendra des articles d'actualité sur l'agriculture, la navigation, les mines, la construction, les machines, les chemins-de-fer, les canaux, les travaux publics, le droit industriel et commercial, les inventions, et les perfectionnements, et principalement sur l'Exposition Internationale d'Anvers, dont il publiera les plans, les dessins, et documents de tous gerre.

TEXTE ILLUSTRE DE BELLES GRAVURES.

Abonnements annuels:—Belgique, 25 francs; pays voisins, 30 francs.
S'adresser à Mr. NICOLAS FASTRE.

Rue des Croisades 32, & Bruxelles.

Ingénieur-Administrateur.

THE FAIR OAK COLLIERY COMPANY FAIR OAK COLLIERY, CANNOOK CHASE, RUGELEY, STAFFORDSHIRE. PRELIMINARY ANNOUNCEMENT OF AN IMPORTANT SALE OF HIGHLY

VALUABLE MACHINERY, COLLIERY PLANT AND STOCK, LOCOMOTIVE ENGINE, RAILWAY WAGONS, AND OTHER EFFECTS.

MESSRS. JOSEPH COOKSEY AND SON have received instructions from the Liquidator of the company TO SELL, BY AUCTION, on an early day, to be named in future advertisements, the WHOLE of the FIXED AND LOOSE PLANT AND STOCK

of the FIXED AND LOOSE PLANT AND STOCK

At the above Colliery, comprising;—
Horizontal high-pressure WINDING and HAULING ENGINES; air compressor and steam engine; a 30 feet Guibai ventilating fan and steam engine; steam boilers and fittings; boiler feed engines; underground pumping and hauling engines; lofty pit frames; winding and hauling ropes, with pulley wheels and gearing; wrought iron pit cages; a large quantity of wrought iron tramway rails; the rails and other materials in the colliery branch railway and sidings; a six wheel locomotive engine, by Fox, Walker, and Co.; truck and cart weighing machines: portable weighing machines; a capital coal screening apparatus, with hoist; about 500 coal tube; safety lamps; colliers tools; smithstools; timber; stores; wrought and cast iron pipes; wrought and cast iron scrap; and a variety of other effects; also a number of railway wagons.
Catalogues are in course of preparation, and will shortly be ready for distribution; meantime information may be obtained of Messrs. R. Mackay and Co., 3, Lothbury, London, E.C., and Royal Exchange, Middlesborough; the Auctioneers, Paradise-street, West Bromwich; and at the Colliery.

IN LIQUIDATION. WHEAL GEORGE MINE,

BEITWS-Y-COED. MR. RCBERT JONES has been instructed TO SELL, at the Mine, on WEDNESDAY, November 5th, the WHOLE of the MINING PLANT AND MACHINERY, comprising:—

An 5 horse vertical STEAM ENGINE; two graphite mills; a disintegrator; am rails, wagons, &c., &c.

The Liquidator is prepared to treat for the sale of his interest in the lease of the mining rights.

mining rights.

ne machinery, &c., will first be offered in One Lot; but if no acceptable offer nade will be sold in detail. Further particulars can be had of W. H. PANNELL, F.C.A., 33, Basinghall-street, E.C., Official Liquidator; of Captain KNERSONE, Bettws-y-Coed; or of the Auctioneer, Lianrwst.

WEST MARY ANN MINE, MENHENIOT, CORNWALL.

MR. SPRY is instructed TO OFFER FOR SALE, at Webb's
Hotel, Liskeard, on WEDNESDAY, the 12th day of November, 1834, at
half-past Three o'clock in the afternoon, the ABOVE MINE as a going concern,

with all the colock in the silections, the ADV'L alica as going contents, with all the MACHINERY, PITWORK, and MATERIALS THEREON.

The mine is situated in the parish of Menheniot, Cornwall, and adjoins the once celebrated Mary Ann Mine, which yielded immense quantities of lead ore, and from which upwards of £70,000 were paid in dividends.

The West Mary Ann sett is very extensive, and is held for a term of 21 years, from 1st September, 1377, at 1-18th dues. A large lead lode traversea the sett, and a shaft has been sunk on the course of the lode to the 55 fm. level, where it has been opened on north and south for a short distance.

The south and presents a most promising appearance, and produces fine stones of silver lead ore, indicating that if explored in depth very remunerative results would follow.

would follow.

The north end is being driven, but it is not sufficiently advanced to meet with the ors ground seen in the level above.

The machinery on the mine comprises a 24 in. cylinder pumping and winding engine of sufficient power for exploring to a considerable depth, with 7 in. pit-work attached, and all necessary appliances for developing the property. The mine is offered for sale, in consequence of the relinquishment of a large number of shares by shareholders, who from various causes are unable to carry on their interest; and as the lode is found in strata, so congenial for the production of mineral, a rare opportunity is presented of acquiring a most promising mining property at a very moderate cost.

To inspect, apply to the Furser, Mr. W. G. NETTLE, Dean-terrace, Liskeard, and for further particulars to him, or to Mr. R. Cauntes, Solicitor, Liskeard.

NOW PUBLISHING, PRICE 30s., THE THIRD EDITION OF KELLY'S DIRECTORY OF THE MERCHANTS, MANUFACTURERS, AND SHIPPERS OF THE UNITED KINGDOM: Being a Guide to the Export and Import Shipping, and Manufacturing Industries of the United Kingdom, with the Colonies and Foreign Countries.

Industries of the United Kingdom, with the Colonies and Foreign Countries.

This work gives a vast amount of information respecting the business carried on between the United Kingdom and the Colonies and foreign countries, showing the description of goods and the amount thereof exported to each Colony or country abroad, the British ports whence shipments are made, the merchants, factors, and shippers at the various ports and towns in England, the manufacturers of the principal goods exported, and the merchants and others abroad who are importers or buyers of British goods.

It also gives complete information as to the various scriptions of goods, and the amenta thereof imported from abroad into this ountry, with the names of the merchants and shippers, and also the manufacturers at the principal towns of the various goods imported.

The work is divided into three principal divisions, the first of which comprises the various foreign countries and British possessions throughout the world to which British manufactures are exported.

Under each of these is given, first—a statistical account of the country; the financial position; business relations with this country, with, in the case of foreign states, the names of the British and other Consuls; the name of the Minister in this country, Consuls, Vice-Consuls, to, as the various ports and places in this country, the principal bankers, the merchants, commission merchants, buyers of English goods, and the manufacturers, &c., at the principal towns of the various goods imported; the various ports in each country; also the ports in this country whence shipments are made; tariffs, &c., &c.; a tabular statement showing the exports from this country during the last three years; a list of the merchants and shippers in the various British towns; list of steamers and other vessels salling from the ports; also a list of the various manufacturers and other vessels salling from the ports; also a list of the exporters from this country.

The second division of the work embraces

country, stating the class of goods exported by them.

The third division of the work embraces the names and addresses of the actual manufacturers, or manufacturer agents, of the articles exported, describing as clearly as possible the specialities of each manufacturer.

"It is almost exhaustive as a guide to the shipping and manufacturing industries, both export and import, of Great Britain and Ireland."—The Times, Sept. 20th, 1884.

"Merchants and manufacturers of all kinds will find the Directory a valuable guide, whether their interests are concerned in exports or imports."—Desig Caronicle Sept. 12th, 1884.

"It is abounds in information of the kind which merchants, manufacturers, and exporter are constantly in need of. Its scope, however, is not confined to the

Chronicle Sept. 12th, 1834.

"It abounds in information of the kind which merchants, manufacturers, and exporters are constantly in need of. Its scope, however, is not confined to the classes who is this country have business with the colonies and foreign parts; but includes also the principal merchants abroad, so that the book becomes a tolerably complete guide to the import and export industries of all countries with which Great Britain has any mercantile relation, and vice versa."—Daily News, Sept. 17th, 1834.

"In collecting the names of foreign and colonial firms—a task of considerable difficulty, as will be understood—Mesers. Kelly have had the assistance of the British Consults, many of whom have given personal testimony to the investigation.

many of whom have given personal testimony to the important rectory fulfils in commercial circles abroad."—European Mail,

1884. EXELY and Co., Publishing Office, 51, Great Queen-street, W.C. É. P S. HAMILTON (late Chief Commissioner of Mines for the Province of Nova Scotta), PRACTICAL GEOLOGIST, MINING SAT, and MINING ENGINEER, HALIPAX, NOVA SCOTTA. INCHARSE and SALES of MINING PROPERTY effected, with careful re-tio the interests of clients.

Notices to Correspondents.

COPPER-YIELDING MATRIX.—Will any one of your numerous readers kindly say, through the medium of the Journal, whether or not he has known a permanent and profitable copper mine in limestone, sandatone, or porphyry? Doubtless copper has been found in such geological formations; but it is said so rarely, and has proved to be so short lived, that the occurrence would seem to be merely a freak of Nature rather than indicative of permanency and profit. The question, then, is has a permanent and profitable copper mine been found to exist in limestone, sandstone, or porphyry, and if so, where and when?—IGNORANCE.

AVA DE JADRAQUE GOLD.—Can any correspondent give me any information about this company. Some months ago I wrote to the scoretary, Mr. W. A. White, at the office, 28, New Bridge-street. My letter was returned, with "not known at 23" written on it.—G. L.

PLYNFTON MINING AND ARRENICAL COMPANY.—I was induced to take shares in the above company in 1879, and it shortly afterwards was put into the hands of a liquidator to be wound-up, from which time I have heard nothing more about it. Can any of your numerous correspondents give me any information set to what has been or is being done in the matter? Does not the law of liquidation especially provide for a yearly report from the liquidator to the shareholders and the creditors of an estate till it is finally wound-up?—F. B.: Newcastle.

F. B.: Newcostie.

Rew BOUTH WALES SILVER MINES.—Being desirous of obtaining some information as to the origin of a silver mine in Silverton, New South Wales, I enquire through the Mining Journal as the most likely source for gaining such. In Silverton there is a mine which is known by the name of the Mitchell Creek, and I wish to ascertain from what source it derives its name? If it is from an individual or individuals bearing the name Mitchell I would like very much to find out their geneaology. I do not know any other source in the meantime for getting a solution to the above.—W. M.: Glasgow.

PRESCH DATE COMFRE COMPANY.—Can any correspondent who is like myself in the same position give me any information as to the progress being made in winding up the French Date Coffee Company? I am unfortunately the holder of 400 shares, and I remember when the company was put into liquidation, sometime about February or March of last year, we were informed that considerable assets were in hand in cash as well as the entire value of expensive premises in Paris, and I am at a loss to understand how we have never heard anything of these.—PSEUDONYM: Liverpool.

anything of these.—PSEUDONYM: Liverpool.

OST-BOOK LIABILITIES.—I would be glad if you could answer the following:—
Last May I bought some shares in a Cost-book mine, paying cash for them; since then there have been two calls in this mine. Now I have received no transfer nor communication of any kind, except contract note and receipt of payment last May. Can you say how I stand, and whether I am liable for the two calls that have been made.—C. M. D.: Manchester.—There can be no question that if a dealer or other person sells a Cost-book share, and fails to deliver it until after a call has been made, the seller must pay the call. The buyer acquires no liability until the transfer has been registered, and in a Cost-book concern a share cannot be transferred until all calls are paid. If the dealer declines to deliver the shares, calls paid to date of delivery, put the matter in the hands of your solicitor, and he will quickly recover.]

Receipted.—R. N. W. (Plymouth): Thanks.—"H." (Amsterdam): Address for-

Recrived.—"R. N. W." (Plymouth): Thanks—"H." (Amsterdam): Address forwarded as desired—"W." (Vronheulog): We have completed the table as you wish, and publish it—"H. D.": Inserted—"F. L." (S. A. des Sondages du wish, and publish it—"H. D.": Inserted—"F. L." (S. A. des Sondages du wish, and publish it—"H. N." (Columbia): The copy sent has been torn; have you another to spare F—"W."; Messrs. James Lewis and Son, of Liverpool, could supply the argentiferous matte, regulus, or precipitate required—"Occasional": Next week.

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, NOVEMBER 1, 1884.

THE NEW COLLIERY REGULATION.

THE NEW COLLIERY REGULATION.

The recklessness of the working collier is proverbial. Probably this is due to a very great extent to the risky nature of his occupation. Accustomed to danger from their very infancy, they appear indifferent to the many subtle enemies which surround them on all sides. Familiarity does indeed breed contempt, and it is by no means an uncommon thing to find a collier strike a match in order to obtain a light for his pipe, heedless of the fatal consequences which might, and often does, ensue from such a rash act. Other salutary precautions are alike disregarded, and the official record of so-called "accidents" caused by the carelessness, or worse, the recklessness, of the collier clearly proves that if the lamentable loss of life in mines is to be prevented it must be by the adoption of rules and regulations rendered absolutely necessary for safety, although their observance may occasion inconvenience or a little pecuniary sacrifice on the part of the miner. Experience has proved over and over again, and is being every day repeated, that in the practical working of a mine, more especially those of a fiery nature, the collier cannot be entrusted with his own safety. No inspection by any number of officials, no mere rules or regulations, can give immunity from catastrophes. Bules may tend to check and lessen the consequences of explosions; but to prevent them the means of mischief must be taken out of reach altogether.

but to prevent them the means of mischief must be taken out of reach altogether.

We have on several occasions entered our protest against any large increase in the number of Government Colliery Inspectors, which some zealous but indiscreet persons are seeking to bring about. We believe it would tend to relieve the proprietor and manager from that care and supervision which properly belong to them, and thus increase explosions and other fatalities. At the same time, where there is such reckless disregard on the part of the collier, stringent rules are absolutely necessary. It is, therefore, with pleasure we regard the new rule which the Home Secretary, Sir WILLIAM HARCOURT, has just issued with regard to shot-firing as a step in the right direction. The new rule proposes to prevent shot-firing in all collieries unless the men are first removed out of the collieries, except those actually engaged in firing such shots. Many competent authorities would have gone further, and prohibited the use of powder and shot-firing entirely in all collieries. Mechanical science has placed at the disposal of the collier a fairly efficacious and absolutely safe method of getting coal without the use of powder or shot-firing. Why, then, should the dangerous process be continued? The Government Inspectors have repeatedly reported against its use, and recommended its prohibition. It is one of the most prolific sources of fatal casualties, and totals up an average loss of over 200 lives per annum—last year no less than 246 deaths being due thereto? This is one of those "preventable" casualties in mines at which it is the dety of the Government to strike at the very root, and this can only be done by acting upon the recommendations of the Inspectors, and prohibiting the use of shot-firing under any and and this can only be done by acting upon the recommendations of the Inspectors, and prohibiting the use of shot-firing under any and every circumstance.

And the new regulation is a good step forward. The working col-lier, however, true to his proclivities, dislikes any change in the mode of working, and already is up in arms against it. In the South Wales district the men have already met in large numbers, and denounced in no measured terms the new rule as oppressive and impracticable of adoption, and have petitioned the Home Secretary against enforcing its use. But was ever a new regulation, involving a complete change in the system of work, ever recommended without the most violent opposition? The introduction of steam itself—the employment of machinery instead of manual labour—was to bring about the speedy machinery instead of manual indoor—was to oring about the speedy ruin of the country. The same principle applies to-day in the work-ing of collieries. Let any manager try to introduce a new system into any pit; and, although it works admirably in other districts under precisely parallel circumstances, it will in all probability meet with the most violent and uncompromising opposition. With regard to the new regulation of the Home Secretary it is vehemently oppo-sed by the working collier, but this is besed upon inverted inforsed by the working collier, but this is based upon imperfect information; they evidently have no practical experience of "the lime process," and with true Tory pertinacity regard every advancing step as an innovation dangerous of adoption, and, therefore, to be fought

against tooth and nail.

In so strongly protesting against the introduction of this ne lation the managers and workmen should remember that the Home Secretary is responsible to a great extent for the safe working of mines. The saving of human life is his first consideration—to this everything else is subservient. If it can be proved that an old established plan involves serious risk to life, and that a new system is equally efficacious and is absolutely free from danger, no sane man would hesitate to abandon the former in favour of the latter. And this is precisely the case of the Home Secretary. Last year 246 lives

fell a sacrifice to shot-firing, and in February last 14 poor fellow were killed in the Penygraig Colliery, South Wales, and the Government Inspector and the coroner's jury had no hesitation in saying this was entirely due to the firing of a shot. The old system is therefore, eminently dangerous. On the other hand, almost engagement Inspector has condemned the use of shot and power and they would not do so without due cause. In addition to make periments with lime have been made in almost every variety of say under the practical inspection of a committee of miners, who unbased the pronounced in its favour. Not only so, some time age that they pronounced in its favour. Not only so, some time age to Secretary of the Miners' National Union issued a circular urging the general use of lime in preference to powder in all mines—so that is general use of lime in preference to powder in all mines—so that is a parfactly safe and equally. Secretary of the Miners' National Union issued a circular urging in general use of lime in preference to powder in all mines—so that it miners themselves say that here is a perfectly safe and equally est cacious agent. Why, then, should it not come into general use Until the collier becomes accustomed to the new system it may call Until the collier becomes accustomed to the new system it may can a little inconvenience and possibly a little temporary loss in wags but life, as we have before remarked, is the first consideration. To colliers are condemning a system of which they have had no proceed the colliers are condemning a system of which they have had no proceed the colliers are condemning a system of which they have had no proceed the colliers are condemning a system of which they have had no proceed they have not issued his new regulation without due consideration and a full knowledge of all the facts of the case. Shot-firing is a questionably dangerous under the most favourable circumstated it is condemned by the Government Inspectors of Mines; it was donounced by a committee of miners, who specially investigated to use of lime; and, lastly, the Miners' National Union protested again shot-firing, and in favour of the use of lime. Under these circumstances the Home Secretary can scarcely resist such overwhelming evidence, and if he does not entirely prohibit shot-firing in all miss he must insist upon the new regulation having practical trial, assess that it will materially conduce to the greater safety of the mines, as remove another of those "preventable" catastrophes which cause a great a yearly sacrifice of human life.

DISCOVERY OF THE FOUNDATIONS OF A ROMAN BRIDGE IN THE RIVER TRENT.

In the course of carrying out large dredging and other works in the improvement of the Trent navigation, which connects Hell Grimsby, and Goole by water with Birmingham and the Midla Canal System, a most interesting discovery has been made, and on which seems likely to receive more than an ordinary share of attention from antiquarians and historians. On the passing of the Test Improvement Act last spring the Navigation Company commerced operations in a reach of the river lying between the villages of Callingham and Cromwell, north of Newark, near the former of the is supposed to be the Roman station of Crocolana, and the lais given by Carlyle as the nursery of the Cromwell family.

The works in progress include a large amount of dredging to quantity of material already removed from the river bed amounting to some 50,000 yards, and it was during this operation that the was

is given by CARLYLE as the nursery of the Cromwell family.

The works in progress include a large amount of dredging to some 50,000 yards, and it was during this operation that the wondern men came across what had been formerly mistaken by Trent both men for a sunken barge or keel, but what proved on further public and careful examination to be the pier of an old wooden bridge.

About 40 ft. or so closer to the north bank another of similar appearance was found, and it is presumed there are six or seven of the piers forming the whole bridge.

A decision was come to by Mr. Roff, Mining Institute C.E., Engineer in Chief, to blow up the two piers obstructing the narigable channel with dynamite. This was done carefully and effectually under the superintendence of Mr. WHILLDON, Surveyor to the Copany, and Mr. Johnson, of Tower-street, Dudley, acting for the Explosives Company, of London.

As this record of old time lay in mid-channel, 4 or 5 ft. under water, with a strong current running, it was fully expected that hole would have to be drilled into the solid masonry, and the shots find by electricity from the shore. This being a very tedious and expesive method, Mr. Johnson decided to try much easier but still marrisky means. The dynamite having been made up into waterpred packages of 10 lbs. each, the operator, with surveyor and assisting started in a small boat guided by ropes from each side of the rire to the scene of action. On arriving immediately over the old fordation, which was found to be diamond-shaped, a charge was lowed on to the one end. All being ready the fuse was lighted, and is boat drawn rapidly down the river out of harm's way. Inspecting proved that the "old chap" had been hit very hard. Another hear charge was then placed in the centre and exploded in a similar way, bursting the whole structure, and throwing up an immense come water, the falling spray from which was driven by the wind at least whole is the falling spray from which was driven by the wind at least water for 16 centuries and more,

of the remaining piers.

From observatiors previous to blasting it appeared that the fomittions were formed of wood, set in Lancaster or somewhat simils stone, the oak wallings and baulks were black and hard, but maily in good condition: the mortar was still quite hard and addesits, it in good condition: in good condition: the mortar was still quite hard and adhesis, it wallings were tied across through a large centre baulk by tie-piss of wood, having octagonal heads, through which wedges had endently been driven to keep the structure of good now remains in safe complete preservation, although in Rome itself some traces of wooden bridge, supposed to be either the Pons Aemilus or the Pus Sublicius have been seen in the Tiber, but they do not appear to have been distinctly recognisable. From Ratue, or Leicester, the anciest Fosse Road makes its way through Vernametum and Margidum, thence by the Trent banks to Lindum, or Lincoln. Between he gidunum and Lindum two stations are given in the History of Aeminus, the sites of which have been a matter of some dispute among the learned; of these two Crocolana seems to have taken up is petion by general consent at Brough, near Collingham, and Adposts, the learned; of these two Crocolana seems to have taken up its piction by general consent at Brough, near Collingham, and Adpostes, the other, is generally placed at Farnden. At first it would appear that the position had been solved by the discovery near Collingian, but the distances given by Antoninus do not there correspond, so the bridge now traced can only be fixed upon as adjacent to its station Adpontem by the supposition that Crocolana and Adponish have been accidentally transposed in the Iter of Antonine. Local historians have attempted to fix the position of Adpontem at Nessak and Southwell; there are really no proofs in existence which go is show that Newark was a Roman station, but Southwell, if it was a actually the Adpontem, bears evidence of having been held by its Romans as an advanced post across the Trent in their northesis advance. advance.

As the Romans were excellent engineers it is probable the serior particular to a bridge or two across the Trehenta, the basis which, for commercial and other reasons, would at that time be set populous, and the bridge now discovered was probably a connection ink between the district of Lindum and Crocolana and the sur-Ultra Trebentam (Adpontem, or some other), on the way not ward. It may be mentioned, in connection with these wors it the improvement of the River Trent, a matter which Staffords manufacturers take great interest in, that there appears to be significant to be seen possibility of an agreement being come to between the Naright Company and the Corporation of Nottingham, who have hither strongly and rather ill-advisedly opposed the proposals of the st

The Corporation are to subsidise the company, and in retarn the Corporation an ex officio representative on the directe control of certain floodworks within their municipal bound an agreement would no doubt save a most costly Parlistruggle, and will be viewed with favors but costly Parlistruggle, and will be viewed with favors but costly Parlistruggle. struggle, and will be viewed with favour by many interests in the Midlands, which are anxiously looking forward to improve in our system of inland navigation and water carriage. ty of seam
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WINTER TRADE PROSPECTS.

WINTER TRADE PROSPECTS.

In last week's Mining Journal we inserted a few remarks with the object of counteracting, if possible, the gloomy and pessimistic appresentations of many persons with respect to our staple trades over the insines of many persons with respect to our staple trades over the insines of many persons with respect to our staple trades over the insines of many persons with respect to our staple trades over the insines of many persons with respect to our staple trades over the insines of many persons with respect to our staple trades over the insines of the nation. Willst regretting the tone which some persons adopt, we endeavoured to show that there were some substantial reasons why we should take to show that there were some substantial reasons why we should take to show that which should give us a fair average trade over the pinch of the winter. We pointed out that in all probability our principal railway companies would become large purchasers for steel and iron rails, and that our colonies would shortly make important extensions of railways in their midst which must call for large demands for our rails. In confirmation of the accuracy of the views we then expressed, we now find that large orders for steel rails, the total mounting to over 60,000 tons, have just been given out. The mounting to over 60,000 tons, the North-Eastern Railway 9,000 tons, and the South-Western Railway 20,000 tons. The whole has been received and appropriated by the Rails Manufatarers' Association, and form a very good first indication of the gradual revival of trade is found in the fact that the official statistical returns of pauperism, published this week, show that there has been a decrease in the number of paupers this year as compared with last year of no less than 2638, the total number of paupers this year as compared with last year of no less than 2638, the total number of paupers that the North of England iron district the operatives have already the advantage of the slight improvement in trade, and have b

GOLD EXTRACTION-DRY AMALGAMATION.

is indeed most succidal policy, and it persisted in will check the givil which all should endeavour to help forward by every means is their power.

GOLD EXTRACTION—DRY AMALGAMATION.

The question whether there is any class of auriferous ore so religion that an appreciable percentage of gold remains in the rules after the mineral has been submitted to the ordinary processed treatment in use in the gold mining districts of America and Antariai is one upon which some persons in England have so that the part of the superintendent than to the shaence of known processes adapted to treat the ore satisfied that where any serious loss takes place it is justly attributable to the shaence of known processes adapted to treat the ore satisfied in the processes to extract every particle of gold, and the difficilly of dealing with pyrites and arsenical auriferous ore, usually saglect important considerations. It by no means follows that the posses which extracts the largest percentage of the gold contained incessarily the most economic in a commercial sense, because it fragmently happens that 90 per cent. of the contained gold in an ore briding \$10 in the ton can be extracted for \$3, whilst by using an impored process which enables \$7\frac{1}{2}\$ per cent. of the contained gold to be extracted from the same or the cost of treatment is raised to \$6\$ and the length of the process increased, so that by losing one-tenth of the produce we gain \$6\$ on each ton treated, which the interest of the produce we gain \$6\$ on each ton treated, which the interest is the same provided and more perfect (?) process gives us 75 cents per ton more gold, but laws us the \$3.75 profit on each ton of ore treated; and hence we acrifice \$2.25 of profit, for the benefit of the inventor, upon every to of ore treated. Yet on the face of these indisputable facts, investors are in the habit, and the habit is unfortunately on the inventors are in the habit, and the habit is unfortunately on the inventors are in the habit, and the process will have to the fac by the force of these repeated blows. The whole of the wearing action is concentrated upon the beaters, which are adjustable, and can be readily replaced when worn out. During this continuous beating action a current of air is induced through the casing by means of vaces on the revolving arms, the force of which current can be regulated by valves to any required extent. The size of the particles delivered from the pulveriser is entirely controlled by the force of the current, as no particle can leave the machine until it is fine enough for the air current to exact the force of the current to the control of the current to the controlled by the force of the current to the cu tair current to suspend it and carry it forward. The pulverised ma-rial is thus automatically conveyed to a settling or collecting cham. terial is thus automatically conveyed to a settling or collecting chamber, from whence it passed by its own gravity to an apparatus which automatically regulates the feeding of the auriferous powder into the amalgamator. This portion of the apparatus contains a body of mercury from 30 to 50 in. in depth, according to requirement, and to the bottom of which the powdered ore is conducted. Being so much lighter than the mercury the ore rises through it to the surface as fast as the controlling mechanism will permit, having yielded up the gold in its upward passage. The refuse sand, on reaching the top of the mercury, encounters another air current, which conveys it either to the waste pits or, if necessary, to another machine for the separation of any sickened mercury which, in the case of arsenical sulphides and some other other complex combinations, may be carried away

by the amalgamating air blast. This last machine effectually separates and detains the last particle of mercury, thus obviating the waste of this valuable metal, the escape of which forms such a serious source of loss in many gold mines.

The simplicity and efficiency of the process may safely be left to the judgment of those accustomed to the extraction of gold from its ores, but it is stated that a mill on the Jordan principle recently erected at Stratford Market, capable of doing 50 tons of ore per week is driven by a 10-horse horisontal engine. In a test trial some Queensland ore tailings—that is the refuse ore after amalgamation—were put through the mill, and the automatic action and simple character of the whole plant were clearly demonstrated. With regard to the superiority of the Jordan system over those in ordinary use, it is stated that some Queensland ore containing 4 oz. 18 dwts. of gold per ton was put through the apparatus, with the result that only 4 dwts. 20 grs. of gold were left in the tailings, showing that 95 per cent. of the gold had been taken out. In another case some concentrated tailings from an ordinary stampmill containing 4 ozs. 9 dwts. of gold per ton were put through the Jordan apparatus, analysis showing that only 8 dwts. 1 gr. per ton were left in, being equal to an extraction of 93 per cent. Californian ore, containing only 1 oz. 18 dwts. 2 grs. per ton, was also put through, the result being that only a trace of gold was found in the tailings. Some of the tailings from the same mine from which this ore came, containing only 8 dwts. 18 grs. of gold per ton, were also tried with a similar result, a mere trace of gold being found in the tailings. Mr. W. Crookes, F.R.S., in a report upon the process, declares that it will extract gold from refractory pyrites with greater facility than the ordinary process will treat free milling ore, and if this opinion be supported by the results of actual practice the inventor will be well entitled to the warmest congratulations.

inventor will be well entitled to the warmest congratulations.

British Commercial Geographical Society.—The formation of this society appears to be making satisfactory progress. On Monday, by appointment of the Lord Mayor, a meeting in its support was held at the Mansion House, Dr. Hyde Clarke occupying the chair. The Chairman, after referring to the favourable reception of the project by leading firms in the City, said that there was every reason to believe that as its vitality and vigour developed the institution would receive the support from the merchants of the country which its promoters desired. The interest awakened in the subject by a meeting over which the Lord Mayor presided when this society was founded, in July last, had already borne fruit in the formation of two similar societies, one in Edinburgh and the other at Manchester. It was to be hoped that commercial geographical societies would be formed in every important town in the kingdom such as now existed in Germany and in France. The prospective pecuniary advantages of the society having been referred to by Commander Cameron, it was resolved—"That the function of commercial geography as distinguished from purely scientific geography being to search out and disseminate special information regarding the productions, requirements, and physical conditions of various localities and countries with a view to the extension of British trade, it is the opinion of this meeting that the British Commercial Geographical Society, founded at the Mansion House on July 15 last, is calculated to be of eminent service to the commercial and industrial interests of this country, and well deserves the support of the mercantile community of London and the provinces." This was seconded by Mr. Manley Hopkins, Consul-General of Hawaii, and supported by Mr. Foung Yee, a Chinese Secretary of Legation, who avowed his belief that foreigners should not regard the formation of this society with jealousy, since its operations, by the extension of trade and the promotion of int

mercial Geographical Society will be a most valuable Institution for the purpose of promoting this important object."

MINING PROGRESS IN THE TRANSVAAL. — Under the head of Nuggeteer's Tailings, Mr. D. Gordon Cameron, in his Transvaal Mining Gazette, says: —I hear that the Government is going to reopen the Barrett-Berlyn case. The Lisbon-Berlyn Company is going ahead. Friend Grant wants dividends, so his company is buying upclaims on Dempster's Reef through Mr. Erskine's agency. If the Sanitary Committees had fewer rules and more action, the camp would benefit more by it probably. We notice that Mr. Cooper has started a forge at the Umsindine for the benefit of his West End Pioneer and Dempster's Reef customers, thus saving them the great inconvenience of coming so far into camp. The attempt to float a company in Kokstad for the purchase of Mr. Krskine's ground has turned out a failure. Mr. Savory, of Messrs. Raw and Co., killed a black mamba on Sunday last, in Pumpku Creek, measuring fully 10 ft. in length. Mr. Wylde has obtained a concession in the Crocodile district from Umbandine, the Swazi king, and intends prospecting it shortly. What is the matter at the Kantoor Post-office! Dozens of newspapers, known to be due here, have never arrived, and are not likely to either. There are rumours afloat that the Barbers have sold out their interest in their reef to a Pretoria syndicate for 30,000L. The inspectors sent down by Government to reinspect the boundaries of Moodie's farm, Oerschot, have agreed, at the Kantoor, that the correct line of the farm runs along the top of the high ridge of mountains south of the Pioneer Reef, and that the diggers here are accordingly working on Government ground. Last week one of our brother diggers went out prospecting for reef leaders with a donkey. The only leader found was discovered by his donkey. "Long expected, come at last!" is the exclamation of most of us upon hearing the news per yesterday's mail that the rule of interdict, which has been undecided since June 6, has at cluded in that purchase. We tru the case entirely upon its merits. We trust that the committee will consider

COBALT EXTRACTION.—According to the process patented by Messrs. HERRENSCHMIDT and CONSTABLE, of Sydney, the ore is Messrs. Herrenschmidt and Constable, of Sydney, the ore is crushed and the percentage of oxides of cobalt ascertained, then sufficient sulphate of iron is added to convert the oxides into sulphates, and water added till it is the consistency of thick slime. Then it is boiled for an hour, when the whole of the oxides will have been converted into sulphates and held in solution by the liquor. The thick residue is then washed, so as to remove every trace of sulphates, which may then be treated with any of the well-known resterials for reconverting sulphates into oxide. Instead of the materials for reconverting sulphates into oxides. Instead of the boiling process the dry crushed ore may be mixed with the sulphate of iron in the shape of salt, and heated in a furnace until the sulphate of iron has been converted into an oxide of iron, and the oxides of cobalt into sulphates.

GORSEDD AND MEBLLYN.—On the petition of creditors and share-holders the Chancery Division of the High Court of Justice on Oct. 25, made the usual compulsory order for winding-up.

REPORT FROM CORNWALL.

Oct. 30.—Not merely the unsettled state of the tin market, but the really illegitimate character of that unsettlement, are shown by the fluctuations which have taken place since our last. So far as the general conditions of supply and demand are concerned, there was no reason whatever why the recovery of 3s. should be succeeded off-hand by a second fall of 2s. Nor can any one be hardy enough to contend, with any show of reason, that in the interim there had been the slightest depreciation of value in our leading mines. Indeed, the tendency is quite the other way, and that not only at Carn Brea, where such an important discovery has just been announced. It should be one of the most important elements in coming to a conclusion touching the present position of affairs that Cornwall, in capability of productiveness, is clearly gaining ground, whilst its exterior rivals, in the Straits as elsewhere, are as clearly failing off. But considerations like these seem to have very little influence on the present, though, of course, they must have an influence upon the future.

The discharge of miners at various mines continues, and has spread into Devon. The only mining district in the latter county now left—the few other mines are merely as it were dotted about—is that of Tavistock, the mainstay of which is Devon Great Consols. The discharge of 50 miners from this mine, coupled as it necessarily has been with a reduction in wages, is a very serious thing, not only for the miners themselves, but for all who are interested in the business of the locality. Tavistock and Gunnislake are in fact far more largely dependent upon mining than upon any other industry, and a falling-off here not only means of necessity great distress, but may if continued lead up in some instances to absolute ruin. An improvement here cannot be too anxiously anticipated, nor can it come too soon. Of course if mines are to be keptygoing at all at such a juncture it can only be by the exercise of the very strictesteconomy in the

TRADE OF THE TYNE AND WEAR.

Oct. 30.—There is a good demand for best steam coal, and the colliers on the north side of the Tyne will be well employed for some time to come, unless the rough weather in the North Sea should retard the progress of vessels, which is very likely. The new company which was formed some time ago to work the old Walker Colliery, on the north bank of the Tyne, have developed the workings considerably, the output being largely increased under the management of Mr. Hickels, formerly of Castle Eden Colliery, South Durham. The demand for gas coal is now very strong, consequently the works producing this coal in Durham are fully employed. The demand for house coal and coke continues only moderate, as does also that for manufacturing coal. The shipment of nut coal from the Wear to Germany has lately been on a large scale. During the past month 40,000 tons have been shipped to that country, where they are largely used in the iron and other manufactures. The total shipments of coal and coke at Tyne Dock for the week have been 119,670 tons, which is about the largest week's work ever accomplished there, and 13,945 tons more than in the corresponding week of last year. The general exports and imports at this dock have also been heavy.

The projected formation of the Engineers' and Shipbuilders Association which is carried out and successful may prove of im-

general exports and imports at this dock have also been heavy.

The projected formation of the Engineers' and Shipbuilders Association, which if carried out and successful may prove of importance in this district, has already been noticed in the Journal, and it is thought that there is a field quite large enough for the occupation of the new society without encroaching on that occupied by the older Institution—the North of England Institution was formed in 1852 it was called simply the Northern Institute of Mining Engineers, the objects aimed at being the reading of papers on all matters connected with mining operations, and discussions thereon, and one special object of the society was, if possible, to prevent explosions in mines, which were at that time so frequent. Mr. Nicholas Wood was the first President, and he laboured long and successfully to promote these objects.

explosions in mines, which were at that time so frequent. Mr. Nicholas Wood was the first President, and he laboured long and successfully to promote these objects.

A number of the most eminent mining and mechanical engineers in this district seconded his efforts, and the volumes of Transactions contained valuable practical papers on all subjects connected with coal and other mines, and the labours of these gentlemen produced excellent results, and had a direct tendency to increase the safety of the miners, and to introduce improved modes of working the mines. Of late years the scope of the Society has been greatly extended, its title and objects changed, and it is now known as the Northern Institution of Mining and Mechanical Engineers, and the Society has certainly prospered greatly. There are now 800 members, and financially the Institute has been successful. It has, however, been considered by some that in extending the ground occupied by the Institution a great variety of subjects have been introduced which scarcely bear directly on the working of mines and the machinery connected therewith. At all events, it is now evident that the iron shipbuilding trade, the marine engineering, and some other trades on the Tyne, Wear, and Tees have reached such large dimensions that there is an ample field for the new society of Engineers and Shipbuilders, which it is now proposed—[though this would probably be at once stopped by injunction—ED. M.J.]—to call "The North of England Institution." Mr. W. Boyd, of Wallsend Shipbuilding Works, occupied the chair on this occasion, and he advised that the adoption of a constitution and the election of officers should be left over for a fortnight, assuring those present at the meeting that he had no doubt that 'he employers in those trades would heartily support the movement. He also advised that invitations should be sent to members of those professions on the Wear and Tees to join them before any further important steps were taken. It was ultimately agreed that the suggestion

Taylor, Mr. F. C. Marshall, Mr. John Price, and also some gentiemen on the Wear who should be found willing to co-operate with them. On the whole, the Iron Trade has been quiet this week. Shipments, however, continue good, and, therefore, stocks will not increase at present, and as the price of pig-ironjis open, through the collapse of the masters' combination, there is a more healthy state of affairs. In a vast industry like the iron trade a restriction of make on the one hand and a fixed sale price on the other cannot be carried out. There are some signs of improved trade generally. The make on the one hand and a fixed sale price on the other cannot be carried out. There are some signs of improved trade generally. The demand for steel is encouraging, and work seems to be more plentiful in the district. The starting of the steelworks of Messrs Bolckow and Vaughan is indicative of enlarged trade, and the same firm are doing a good deal in steel in various branches as well as ship-plates. The manufacture of cheap metal girders has been started by Messrs. Dorman, Long, and Co., of the Britannia Ironworks, in the Tees, and they are doing a good deal of business in this new branch. Even at present low prices buyers continue to be very cautious, especially for forward delivery, but this may be changed at any moment. Of course there is a 'fear of restricted trade in the winter, which is now near us. The manufacturing iron trade continues very quiet. Orders have been got for a few more ships on those rivers and also on the Tees, mostly for sailing vessels. The building of cargo-carrying steamers has almost ceased. The prices of manufactured iron are—Bars, 5l. 2s. 6d.; angles, 4l. 15s.; ship-plates, 5l. The rates of pig-iron are unchanged; No. 3, 36s. 6d.; 21,790 tons of pig-iron were shipped from the Tees last week. Messrs. Connal's stocks are 53 569 tons, a decrease of 69 tons on the week. In the coal and coke trade there is no change at Middlesborough. The large orders given out recently for steel rails will assist the iron trade of the district, and, of course, more manufacturing coal and coke will be required. coke will be required.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

Oct. 30.—Lead mining in North Derbyshire was scarcely ever in a worst state than it is at the present time, nor was the number of miners employed less. In the Eyam district in particular scarcely anything is being done as regards the raising of lead ore, and two mines at least have recently been stopped altogether. There are still a few companies left, but none of them are in anything like a flourishing state, and were it not for the mines held by a private gentleman or firm there would be very little ore raised in the county. One of these mines, indeed, appears to raise as much ore as all the others put together, and this has been the case for a considerable time past.

gentleman or firm there would be very little ore raised in the county. One of these mines, indeed, appears to raise as much ore as all the others put together, and this has been the case for a considerable time past.

The Coal Trade has improved a good deal since the commencement of the month, but this, it may be said, is principally confined to house and gas qualities. A large tonnage of the former continues to be forwarded to the Metropolis from Clay Cross, Blackwell, Eckington, Langley Mill, Staveley, and other leading collieries, but scarcely to the extent of the men being fully employed. In fact, it would seem that of late more coal has been sent to the Metropolis than was required by merchants and large dealers, and these no doubt are now well stocked. The consequence is that whilst the prices to consumers in London have gone up fully is, per ton no such advance has taken place at the pits, no can such be expected so long as coal is so plentiful, and hundreds of londed wagons remaining at sidings and depots unsold. The recently issued price lists show that the colliery owners have increased their prices on paper; but it is only in some instances that they are able to enforce them defacts. Gas coal has continued to go away in larger quantities, but as has been before pointed out this is simply the result of the contracts entered into in July, when the monthly supplies are regulated, so that mineowners are in no way benefited by the increased business, but rather the reverse, seeing that it would pay them much better were larger quantities taken during some of the summer months. In steam coal no material change has taken place, the business doing in it being still somewhat moderate, the ironworks and railway companies being still the best customers, for but little of it finds its way to any of our seaports for exportation.

Considering the general condition of the Iron Trade that of Derbyshire may be said to be in a tolerably healthy state. With a full average output a steady demand has prevailed for pig fo he leading makers fairly going.

The Coal Trade of South Yorkshire has continued to improve,

and, considering the season, a good business has been done in steam qualities for exportation for both Hull and Grimsby.

REPORT FROM LANCASHIRE.

REPORT FROM LANCASHIRE.

Oct. 30.—For the time of the year there is a decidedly quiet tone in the Coal Trade of this district, and although quoted rates are maintained, there is to some extent a want of firmness is prices, and any further advance in list rates which might have been contemplated is for the present altogether checked. The chief cause of the weakness just now being shown by the market has, of course been the exceptional mildness of the season during the past month, which has considerably restricted the demand for better classes of round coal, but the continued depression in some of the large coal-using branches of industry has also contributed in the same direction by curtailing the requirements for ironmaking or the large coal-using branches of industry has also contributed in the same direction by curtailing the requirements for ironmaking and steam purposes. For the better classes of round coal the quoted prices at the pit mouth remain at 9s. 6d. for best Wigan Arley, 7s. 6d. to 8s. for second qualities and Pemberton Four-feet, and 6s. 6d. for common house coal. So far as small quantities are concerned, these figures generally have to be paid; but where buyers are prepared to take quantities promptly, they are in many cases able to place orders at fully 6d under the above rates. Common round coal for steam and forge purposes, except that they are in fair demand for shipment, still move off only slowly, and low prices are demand for supplied, settlement of the supplied supplied and the pit mouth. In engine classes of fuel the better qualities of slack are moving off rather better than they were, but generally the demand is only poor. Burgy fetches about 4s. 6d. to 5s., good slack about 4s., and common costs 2s. 2d. to 3s. 3d. por ton.

Burgy retones about 4s. ed. to 5s., good slack about 4s., and common sorts 2s. 91. to 3s. 3d. per ton.

Shipping continues fairly good, and in some cases a tolerably brisk trade has been done during the past week, at about 7s. 6d. per ton for steam coal delivered at the High Level, Liverpool, or the Garston Docke.

In the Iron Trade there is still only a slow business doing. Consumers seem to have very little to cover for present requirements, and the prospects for the future are extremely poor. Prices are not and the prospects for the future are extremely poor. Prices are not actually any worse, but the general tone throughout the market is weak, and for good offers makers in some cases would be disposed to give way a little rather than miss orders; but so far as pig-iron is concerned there is very little enquiry in the market to really test prices. For delivery equal to Manchester, local brands of pig-iron are quoted at 41s. to 42s.; Lincolnshire, 41s. 6d. to 42s. 6d.; and Derbyshire, 42s. 6d. to 43s. 6d., less 24. Moderate sales of Middles-

borough foundry for foreign delivery are reported at 43s. 10d. to 44s. 4d. net cash, equal to Manchester. The recent upward movement in Scotch warrants has had no very material effect upon the price at which makers' iron can be got here.

Hematites continue bad to sell, and prices are very irregular according to brand; extremely low figures are taken in some cases, but the average prices for good qualities of foundry delivered here are about 52s. 6d. to 53s. 6d., less 2½ per cent.

Finished ironmakers are being kept tolerably well employed with a hand-to-mouth sort of trade, and they are generally firm at about 51. 12s. 6d. for good qualities of bars, 6l. 2s. 6d. for hoops, and 7l. 2s. 6d. to 7l. 5s. for sheets, delivered into this district. Merchants, however, are competing keenly, and in some cases underselling the makers.

There is no material change to report in the condition of the engineering trades; in most branches there is a continued falling off in the weight of new work coming forward, and where firms are kept busy it is chiefly in foreign orders.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Oct. 30.—The demand for coal, particularly for 'ironworks and manufacturing purposes, has not increased upon the week, and as supplies are very abundant, prices favour consumers. Very fair consignments of foreign coal, contracted for during the recent strike, are coming into the district to the order of ironmasters, and until these are worked off the demand at the Black Country pits proper will continue restricted. The raw iron trade is tame, and to effect sales vendors have to accept lower rates than those recently ruling. Leicestershire pigs are 42s. 6d. delivered, and Northamptons 41s. down to 40s. delivered at stations. Hematites are 55s., and native part-mines 45s. By the blowing in of another furnace at Bilston the number now in blast is 32. In the manufactured iron trade, sheets are almost the only branch in which enquiries are still arriving with vigour. Nevertheless, the other firms are pretty well to do on contracts booked some little while ago. Prices are unaltered.

There is not much probability that the Strike Committee will succeed in their endeavours to get the colliers to come out again on strike. The fact is that the men are disunited, and they prefer to act upon the principle of "letting sleeping dogs lie," rather than take a course which is bound to end in defeat. This cautionary movement, however, appears to be lost upon their leaders. These have held a meeting at Tipton, and have expressed their opinion' that all who have given notice for the advance, and all who have received notice for a reduction, should cease work after those notices expire. Also that those who have not given notice for the advance should do so. Judged by the returns relating to Lord Dudley's pits the number who have is scant. Moreover, those who work at No. 25, Willows Colliery, have only given the notice on the condition that it should take effect if the other pits' companies followed suit. The resolution of the Central Committee will, therefore, be a nullity.

should take effect if the other pits' companies followed suit. The resolution of the Central Committee will, therefore, be a nullity. The accounts kept by the men's secretary during the recent strike have now been audited. They showed that the total amount raised was 69901. 6s. 10d., and that there has been an expenditure of 69611. 16s. 1d. leaving a balance in hand of 281. 10s. 9d. It is reported also that large numbers of men are joining the new Midland Association of

The ironworkers have this week instructed their representatives The ironworkers have this week instructed their representatives on the Wages Board to ask the masters to defer their contemplated claim for a reduction of 3d. per ton in wages until Dec. 1. At a meeting at Westbromwich, at which this decision was come to, Mr. Capper justly pointed out that arbitration could not be blamed for the falls in wages which had occurred during the past 10 or 11 years. Trade had become depressed, and prices had fallen, consequently wages must follow suit. Now that Dr. Spence Watson has notified that he will not give his decision upon the Northern masters' claim for a reduction until December, there does not appear any likelihood that the request will be refused especially as wages in Staffordshire hinge. the request will be refused, especially as wages in Staffordshire hinge upon the rate paid in Cleveland.

At a meeting of the shareholders of John Bagnall and Sons (Li-

mited), on Tuesday, in Birmingham, it was resolved, with only three dissentients, to approve of the scheme of the liquidator sketched last week, for the reconstruction of the company, but the consent of the Court will have to be obtained.

the Court will have to be obtained.

IBONWORKERS' WAGES.—To-day (Thursday) the South Stafford-shire ironmasters signed an agreement with their operatives, promising to defer their claim for a reduction in wages until Dec. 1 next. This decision has been come to owing to Dr. Watson having notified that he will give his decision relative to the Northern ironworkers' wages during that month. Staffordshire puddlers' wages will, therefore, remain at 7s. 3d. per ton for the present.

REPORT FROM NORTH WALES, SALOP, AND CARDIGAN,

Oct. 30.—The future of the Shropshire lead mines depends very largely upon the action of the landowners with respect to royalties. With these in their present form there is little or no hope that the mines will continue to be worked. With a considerable reduction of these, and with a slight increase in the price of lead, the best mines may still have a chance. It rests with the owners whether they will have a loaf half the size of that they have been accustomed to, or no bread. In their present temper I fear they prefer the latter.

The dangerous condition of old mine shafts requires immediate attention. On Monday last a rockman named John Roberts fell down

one on Lianymynech Hill, and remained there for a long time, until his cries brought help, when he was rescued badly bruised. On Halkyn Mountain, in Flintshire, these old shafts are very numerous, and are

in dangerous proximity to public roads.

The Coal and Iron Trades are, as far as work is concerned, prosperous. The slate trade shows a steady improvement. On the works in the Vyrnwy Valley, for the City of Liverpool, the sum of 1,081,700%. 19s. 7d. has been expended up to the present time.

A new work on the Geology of Shropshire is in preparation by the Rev. J. D. La Touche, and will be published shortly. Mr. La Touche is a gentleman well known in Shropshire for his geological and other

attainments.

TRADE IN SOUTH WALES.

Oct. 30.—The Steam Coal Trade of South Wales during the past week was not so buoyant as it has been, but the luli is only temweek was not so dudyant as it has been, but the full is only temporary, and merchants have no real cause for complaint. Good steam coal maintains its price of from 10s. to 11s. per ton, colliery screened, while house coal is quoted at from 8s. 9d. to 9s. 9d. The amount shipped from Cardiff was 108,042 tons foreign, and about 20,000 coastwise, with 3476 tons patent fuel; Newport, 35,859 tons foreign, and 24,059 coastwise; Swansea, 15,827 tons foreign, and about 13,000 coastwise. with 2635 tons patent fuel. about 13,000 coastwise, with 2635 tons patent fuel.

The Gelynog Pit, near Llantrissant, is about to be re-opened. The engineers commenced operations on Wednesday. At the Garth Colliery operations are proceeding satisfactorily. Fresh collieries are to liery operations are proceeding satisfactorily. be opened at Dowlais, and Messrs. Crawshay are about to sink a pit near the Aberdare Junction.

There is great dissatisfaction with the Home Secretary's views as

regards blasting operations, and strong representations will be made to him on the subject.

As regards the Iron Trade it is stated that Dowlais is preparing for

a period of unusual activity, while Cyfarthfa is about to stop for want of orders. The amount of iron sent away last week from Car-diff was 1390 tons, while Newport shipped 1665 tons. The arrivals of iron ore are large. Newport received last week 10,420 tons from Bilbao, and 6750 from other sources; Cardiff landed 10,606 tons from

The price of Tin-Plates is still downward, but manufacturers will not sell under 14s. 9d. per box, while buyers think that they will yet fall lower. "Wasters" are sold as low as 12s.

INDUSTRIAL PROGRESS IN NEW SOUTH WALES.—The Colonial Census Reports for 1881 show a large increase in the numbers engaged in almost every department of productive industry, especially skilled artisans, the increase in several instances exceeding 100 per cent.

WATSON BROTHERS MINING CIRCULAR

WATSON BROTHERS, MINEOWNERS, STOCK AND SHARE DEALERS, & 1, ST MICHAEL'S ALLEY CORNHILL, LONDON

In our Circular of Oct. 18 we called attention to an action which In our Circular of Oct. 18 we called attention to an action which in our opinion, illustrated a very important point in connection with the Cost-book System of conducting mines. Until we read an account of the affair in the newspapers the writer was not aware that such an action had been brought, and in our remarks upon it well ously, as we thought, avoided anything personal, or what might been sidered as personally offensive. Under the head of "Amateur Lega Reporting," in last week's Mining Journal, the solicitor to the defeat, ant in the action referred to not only states that our remarks were calculated to mislead, but on one occasion the Master "dismissed an application" on part of the plaintiff, "with costs in favour of his client."

We have, in consequence of this letter, referred our remarks to the we have, in consequence of this letter, reterred our remarks to the solicitor for the plaintiff, and he informs us they were strictly or rect. We are further informed that every consideration possible been shown to the defendant as a shareholder in West Crebor, and any fair arrangement for payment of the calls would have been accepted before legal proceedings were commenced in accordance with a resolution of a general meeting of shareholders.

At Langford the lode in the 30 west is yielding 4 tons per fatho fimixed ores. The prospects here are very encouraging. The lode in the 102 west at Prince of Wales is not looking to

but is still a fine lode, and likely again to reach its old value The prospects at New Caradon, judging from the agent's report to the meeting, are very favourable. One of the well-known South Caradon lodes has been cut 3½ to 4 ft. wide, and saving work to copper ore, and he confidently recommends the sinking of the shaft

and cutting this lode 10 fms. deeper, where a good discovery may be made, and reward the shareholders. The mine is one of the best speculatious in the district, and in ordinary times shares would law been at a high price. In the present depressed state of the market there seems to be a difficulty in getting in calls.

there seems to be a difficulty in getting in calls.

South Penstruthal has been specially inspected for the shareholders by Capt. Hodge, of Wheal Grenville; and after an exhantive report he gives good encouragement to the shareholders, whave been dreadfully disappointed so far. The mine is well equipped with all necessary machinery. Walton's shaft has been sunk 18 fathoms. Flat-rod shaft, 60 fathoms off, is 170 fathoms deep, and the lode, particularly at Walton's, shows a marked improvements depth, and is in some places 30 feet wide. The chances are therefore considered very favourable for meeting with something good. The vein, as Capt. Hodge says, is from 1 to 30 ft. wide, and "if or is struck it will be in large quantities; and although the mine is poor to-day, it may turn rich at any time, as the chances are very good indeed." In Mr. Watson's "Compendium of British Mining published in 1843, Penstruthal, of which South Penstruthal is a part is thus referred to—"In Gwennap, at a former working, left a profit of nearly 100,000L. The mine is not more than 70 fathoms deep. In fact, most of its riches were found above the 60 fathom level, and during three years, from 1826 to 1829, ores were raised to the raise. during three years, from 1826 to 1829, ores were raised to the value of 132,186*l*.; but in consequence of extravagant working and the ore failing, the mine was abandoned about six years ago." About ore failing, the mine was abandoned about six years ago." About 1843 it was again started in 128 shares only, but we think this was at the north part of the sett. At any rate, so long as we can remember the mine has been a favourite, and may some day we tast amply reward some one.

We have this week received some very rich specimens of ore free Irish Creek, United States, and said to be tin. We hope next wek

IMPROVEMENT IN OVER-HEAD TRAVELLING CRANES .- Meson IMPROVEMENT IN OVER-HEAD TRAVELLING CRANES.—Mean.
Hulse and Co. have recently erected in their engineering work at
Manchester, where considerable extensions are at present being
carried out, a specially designed over-head travelling crane, embraing several improvements upon the ordinary type of crane that av
worth noticing. One of the special objects Measrs. Hulse had in
view was to construct a crane which would have command of in
work as close to the wall on either side of the shop as possible,
and in the grane that when we designed they are able to get within 3th view was to construct a crane which would have command of in work as close to the wall on either side of the shop as possible, and in the crane they have designed they are able to get within 3 h of the wall on one side and 3 ft. 6 in. on the other. The crane, which has a span of 30 ft., and is constructed for lifting 25 tons, i driven by ropes running along one side of the shop, and the driving head being a fixture at one end of the crane, cross-driving is dispensed with. The gearing is in the main of the ordinary type, but there are one or two special features introduced which are notionable. Each motion has its own separate clutch, and the cone aring upon the bevel gear expands into another cone, and by adopting this form it is kept in gear without the pressure that is required in cones of the ordinary shape. The driving gear is also arranged that when the crane is out of work there are only two shafts remining, thus reducing wear and tear to a minimum. To enable the crane to command its work close up to the wall side a bogey carriar has been introduced for placing the lifting tackle in the positional being raised the strain on the crab is equalised. The man in charm of the crane is carried on staging, where he has not only complete control of the whole of the driving gear, but a full and unobstroted view of the shop-floor. At present Messers. Hulse have simply constructed the crane to meet the requirements of their own works, when it has given very satisfactory results, but the special features the have been able to introduce will no doubt commend it to the attention of other engineers where it is essential for hauling work to late to one of other engineers where it is essential for hauling work to late have been able to introduce will no doubt commend it to the atter tion of other engineers where it is essential for hauling work to have the fullest possible range of the skop.

THE BARROW IRON AND STEEL COAL MINES, NEAR BARNSLEY. On Tuesday, the Duke of Devonshire (Chairman of the above off-pany), Lord Cavendish, and several others interested in the Barrel Iron and Steel Company, paid a visit to the coal pits connected with the works, on which there has been an outlay of something like quarter of a million sterling. The party was received by the manage and other officials, and were shown the fine plant, coke oven, in The place is one of the finest in the kingdom, there being three sense. of coal worked, the drawing shaft being 510 yards from the saffar and the company was the first to prove the Silkstone seam from the Barnsley bed, which added about 15,000 acres to the known suppliof fuel in the district, and that of the best quality. Near colliery are a large number of excellent cottages for the work the place in fact being like a small town, on which no expens been spared in providing for the comfort and health of the A large quantity of coke is made from the small coal for the unatterney, being sent over the Midland line. The coal is clear by the use of Shepherd's patent washing machine, and when die put into a number of Coppee's ovens, which turn out a good quantum of coke, although it is not perhaps quite so bright in appearance that made in the ordinary beehive ovens. After visiting the continuous control of the contr rooms, the machinery, &c., the party, much pleased with what the had seen, proceeded to Worsborough Hall (which is leased by its company), where luncheon was partaken of, after which the partileft by railway. It may be said that when working the piac had employment for upwards of 1000 men and boys, but the plact been standing for about three weeks in consequence of a strike.

CHLORIDE OF ZINC DISTILLATION .- Mr. A. JAMIESON, of CHLORIDE OF ZINC DISTILLATION.—Mr. A. JAMIESON, of cago, has patented an apparatus for this purpose, which consists two tanks, lead lined, closed at the top, and connected by a civil pipe. At the bottom of each tank is a coil of pipe, and one take provided with two superposed shelves. The tank without shelves partially filled with water, to which is added salt and sulphuric sid. Under the action of steam from the coil of pipe a vapour is gire off, which passes into the second tank, called the condense, as filled with water, and having pieces of zinc placed on its shelfs. This vapour acting on the pieces of zinc produces chloride of sinc. has fur has bee

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FOREIGN MINES.

Littliff.08.—Oct. 22: The look in the 20, driving west of San Martin's in the supported to \$6 ton per fan. In 18. 20, driving west of san Martin's in the supported to \$6 ton per fan. In 18. 20, per fathom. In the 50, driving with professor a shaft, the look is opening up one do cloping ground, valued with professor. In 18. 20, the supported in the 18. 20, driving and the supported in the 18. 20, driving and the supported in the 18. 20, driving in the supported in the 18. 20, driving the 18. 20, driving east of the 18. 20, driving on the 18. 20, driving east of the

Is seen the the court of the morth and at 230 is looking fairly well: the vein is prosent a maller than it has been, but the ore continues to be of good grade. Be vein in the south end is small and poor, and the men have been put to cut form the bottom part of the winze below the 170, where the Briol's shaft comes down. We are breaking some fair ore, and it will show us whether the south of the grade at present. The ore broken is the new to be the main vein or one of the side streaks.—Hawkins': The orebody showing in the No. 1 stope is large, but of low grade at present. The ore broken in the No. 2 stope its a slee been of rather lower grade of late.—Mill: The Urbarrie tiver has nearly stopped running, but we have brought in the water unped from the Hawkins' shaft, which together with that from the Gallimore has furnished sufficient to run 15 stamps steadily. Although the Hawkins ore labeled low grade the ore from the Gallimore has improved, so that the production remains about the same.—P.5.: The bar of gold as advised on Oct. 4, weight 230 ozs., has been received at the company's office.

INDLY CONSOLIDATED GOLD.—The following extracts from a report, state slay 22, by Mr. Winterbotham, refers exclusively to cultivation on the supporty (coffee, cinchona, &c.). The fortughtly mining report does not fall does not latter tweek:—I am glad to be able to report much more cheerfully of the company's estates than I could on my last visit, which was in May. I was the callivation, and the excellent work done by Mr. Brown. I have by me a summandom of expenditure on all the different branches, and have checked the figure by my own calculations and my own expenditure on similar work, and fast them very reasonable considering the amount done. I should say first, that he monoon, now drawing to a close, has been most satisfactory. There is very title of the leaf rot which is usually present and doing mischief at this season, and the cinchona supplies are almost without a failure.—Ooffee: In taking the crowth of both is usuall

THE MINING JOURNAL.

Into December to east of Ageil has name; but there is more than I December to east of Ageil has name; but there is not the trees, and a healtry seemed that the property of the street the present is great there we no bridge. On sweet a point a second of the work having, for this is the fine new wood on the trees, and a healtry seemed that the property of the street the present that the property of the street that the stree

is district. Fellard and party at the back of seventh level cost are still stopsic strates dequate varying considerally. The strate is at times very such
sicher times it opens up to 4 in. They have the same character of ore
sicher times it opens up to 4 in. They have the same character of ore
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and secured and straightened.—Bocorro Mine: The main adit is being widened, and a better entrance made to the vein.

ORGANOS GOLD.—F. G. Mills, Aug. 31: Mill: During the month 99 tons of mineral were milled, all being obtained from the Te Encontre open-cut. The gold obtained was melted, and gave a bar weighing 38-447 cas. troy. This gives the average yield of 7½ dws. per ton. The dassay value is very much higher, ranging from 3½ to 1½ ox. per ton. The difference represents the gold contained in the pyrites present in the ore. I have proved this to be so by repeated assays that I have made of the tailings, and, as is well known, the present plant is not catapted nor intended for the treatment of the pyrites.—Mine Works: The only points at which work has been carried on are—1, The level west of the cross-cut in Te Encontre; ? To Encontre open cut; and, 3, the cross-cut that is intended to cut the lode that is being worked in the open-cut. The level west of cross-cut was driven 6 fms. 5 ft. during the month. There has been no change of any importance in the lode since my last report. The open-cut has not shown any change in the lode, which still continues good and strong, excepting that on working d eeper the underlie is changing from a north underlie to south. This gives indication that the lode we are working on here is the continuation of the Te Encontre lode, which was thrown by a fault at the point where the level worked in 1831. was stopped. The cross-cut will prove whether this is so or no and I believe by the end of September we shall have cut the lode by this cross-cut.

cross-cut.

ORITA GOLD.—W. S. Welton, Sept. 19: Progress of Works: I have thought it well to send the board photographs of the different points of interest in the works, that they may judge for themselves the difficulties of the work, caused by the dense forest and steepness of the ground. The pipe now crosses the valley, and has been laid on the ground, or in trenches cut in the ground, so

list few days, and are not developed enough to base any calculations at 16 the probable increase in the output. The ore body in No. 2 cawe does not look quite so well, but is still producing ore in paying quantities. Have shipped 15 tons ore well, but is a still producing ore in paying quantities. Have shipped 15 tons ore well, but is a still producing to company \$208.

SANTA BARBARA GOLD.—T. S. Treloar, Pari, Oct. 4: The gold return for the month of September amounts to 3551 oits, and has been derived from 777 tons of mineral from the stope advancing along the bottom of the old mine, being equal to 4:555 oits, per ton; the lode presents no change calling for notice. Holland's shaft was sunk during its month 3 fathems, and some stone discussions that the lode at this point will refer quality; there are, however, including the state of the

bajo with better appearances of ore than last reported on. From an assay made there are traces of silver.—San Martin: In this frente nothing of importance has been discovered. Returns from the Mine of San Cayetano de la Ovejera for the week ending Oct. 11, 1884, \$10,630-67; outlay, \$3525; El Diamante returns, \$118; outlay, \$487.

GOLD AND SILVER.—Messrs. PIXLEY and ABELL (Oct. 30) write:—Gold: There has been a good demand for gold, and all arrivals have been purchased for export. In addition to the above, 31,000. has been withdrawn from the Bank, of which 321,000. has gone to the United States, and the rest to Alexandria. The arrivals are 30,000. from Australia, 25,000. from the West Indies, and 64,160. from Vera Cruz. The Tamar takes 10,000. from this country. 65,000. goes by the P. and O. steamer to Alexandria. and 5000. to Bombay, Silver has remained at 505/d. to 5014/gd. per oz. since our last, until to-day, when lower rates of Exchange having been received from India, and purchases for the Continent having ceased, the price fell to 50\(\frac{1}{2}\), and at this figure the amount by the Medway, from the West Indies, has been placed. The imports have been 30,940. from the Brazils, 40,000. from New York, 32,000. from the Hest Indies = 123,940. The Peshawur takes 28,500. to Bombay: Mexican Dollars: The major part of the arrivals by the Medway were sold before arrival, and the small balance will probably be dealt with at lower rates. The Medway brought 93,600. from West Indies, the Oaxaca brought 46,200. from Yera Cruz. The quotations for bullion are—Bar gold, fine, 71s. 34(4) per ounce standard; bar gold containing 20 dwts. silver, 77s. 11d. per ounce standard; bar silver, fine, 50\(\frac{1}{2}\), der ounce standard; bar silver containing 5 grs. gold, 50\(\frac{1}{2}\), devenue estandard; bar silver containing 5 grs. gold, 50\(\frac{1}{2}\), der ounce standard; cake silver, 50\(\frac{1}{2}\), discount 3 per cent.

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